SPES Setup Manual

Software Setup Guide Ver 1.4

GigaTera® beyond the light by KMW

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Connection Diagram

Master : 1ea / Slave : 3ea

HDMI Cable

NVR

Wired

SPES_Master

SPES_Slave 1

SPES_Slave 2

Internet

PC

Mobile

SPES_Slave 3

Connection Diagram

Master : 2ea / Slave : 2ea

HDMI Cable

NVR

Internet

PC

Mobile

Wired

SPES_Master 1

SPES_Slave 1

SPES_Master 2

SPES_Slave 2

Connection Diagram

Master : 4ea

HDMI Cable

NVR

Internet

PC

Mobile

Wired

Wired

Wired

SPES_Master 1

SPES_Master 2

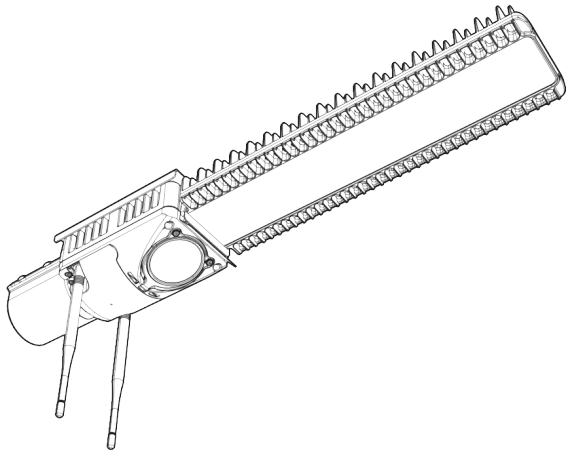
SPES_Master 3

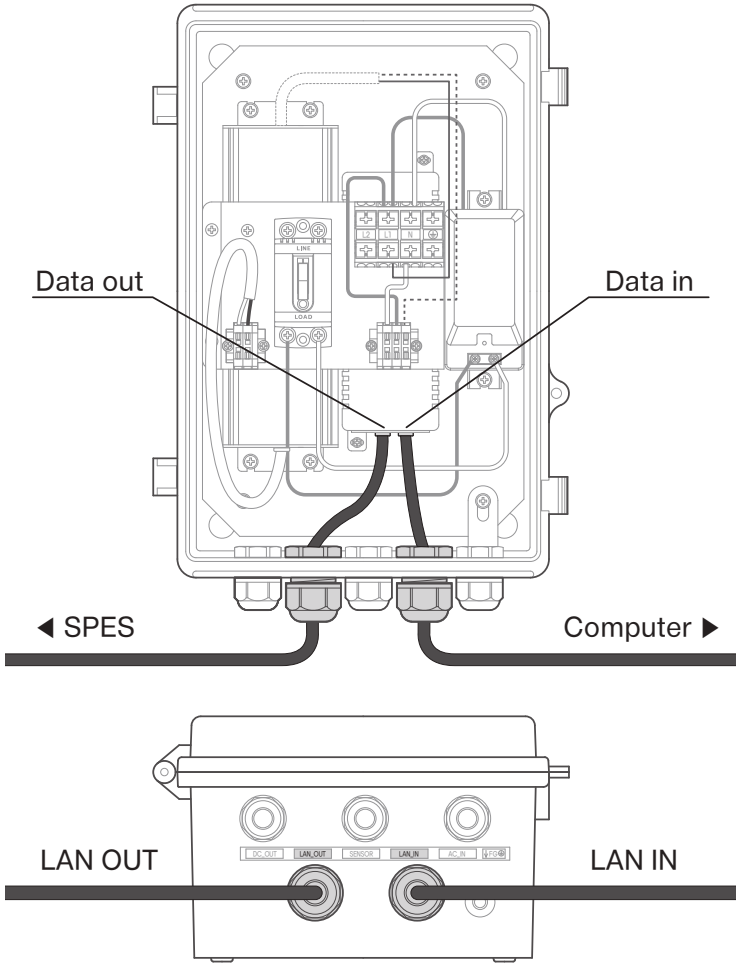
SPES_Master 4

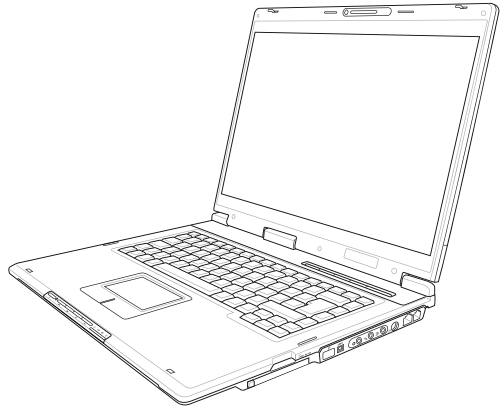
Master setup

Pre-installation check

SPES-Power Box — Check the PC connection and start setup. (Refer to the SPES070 Installation Guide.)



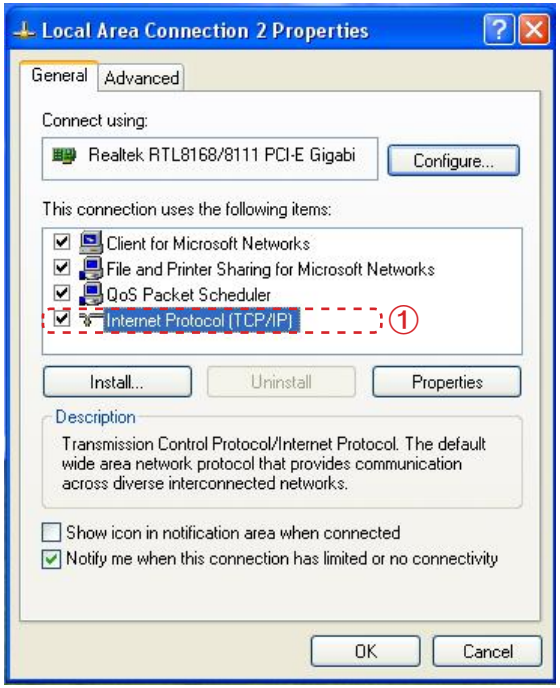




Camera setup

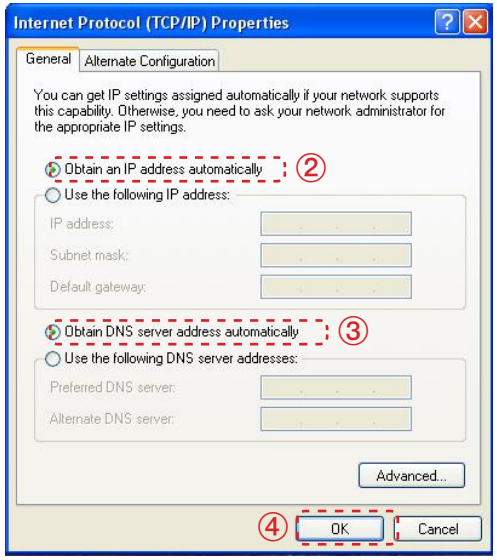
Step 1.

Local area network configuration,
select TCP/IPv4



Step 2.

Automatic IP address assignment
Select “Auto DNS Server Address Assignment” and click OK.

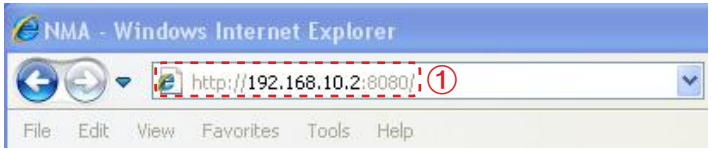


It may take some time according to PC specifications.

Camera setup

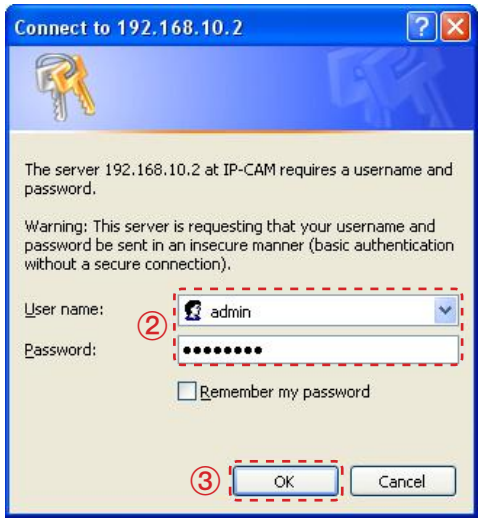
Step 3.

Open a browser and enter
http://192.168.10.2:8080 as the URL.



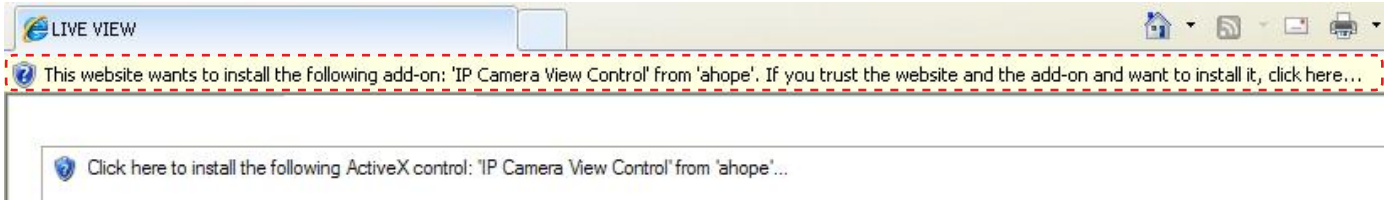
Step 4.

In the log-in prompt, enter
admin
12345678
and then click OK.



Step 5.

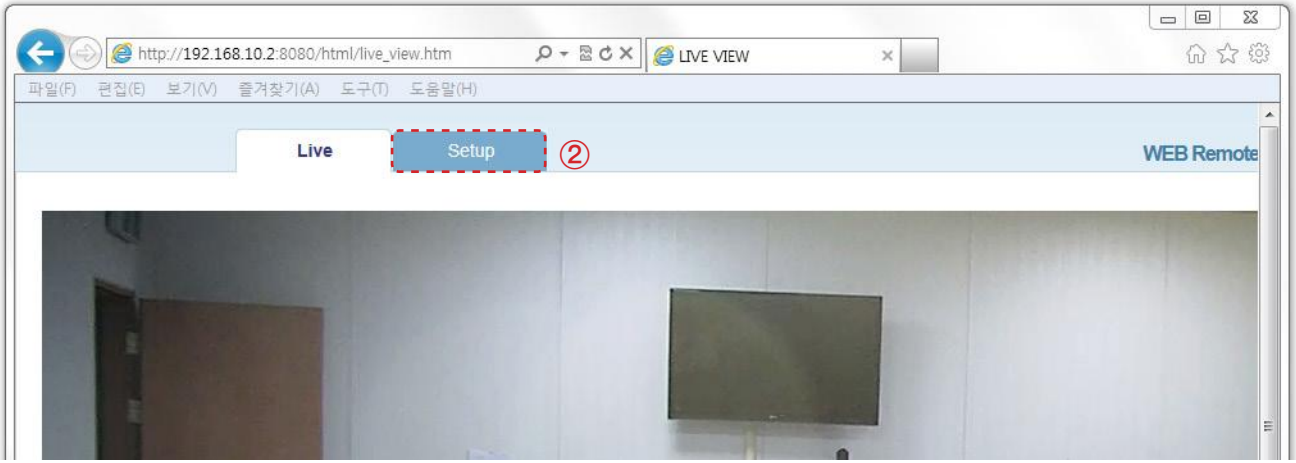
"IP Camera View Control" Installation
▶ You can download the software from GigaTera's Web site.



It may take some time according to PC specifications.

Step 6.

If the camera is connected, click the Setup tab.



Camera setup

Master 1EA Setup

Master #1	HTTP Port	8080
	RTSP Port	1550

Master 2EA Setup

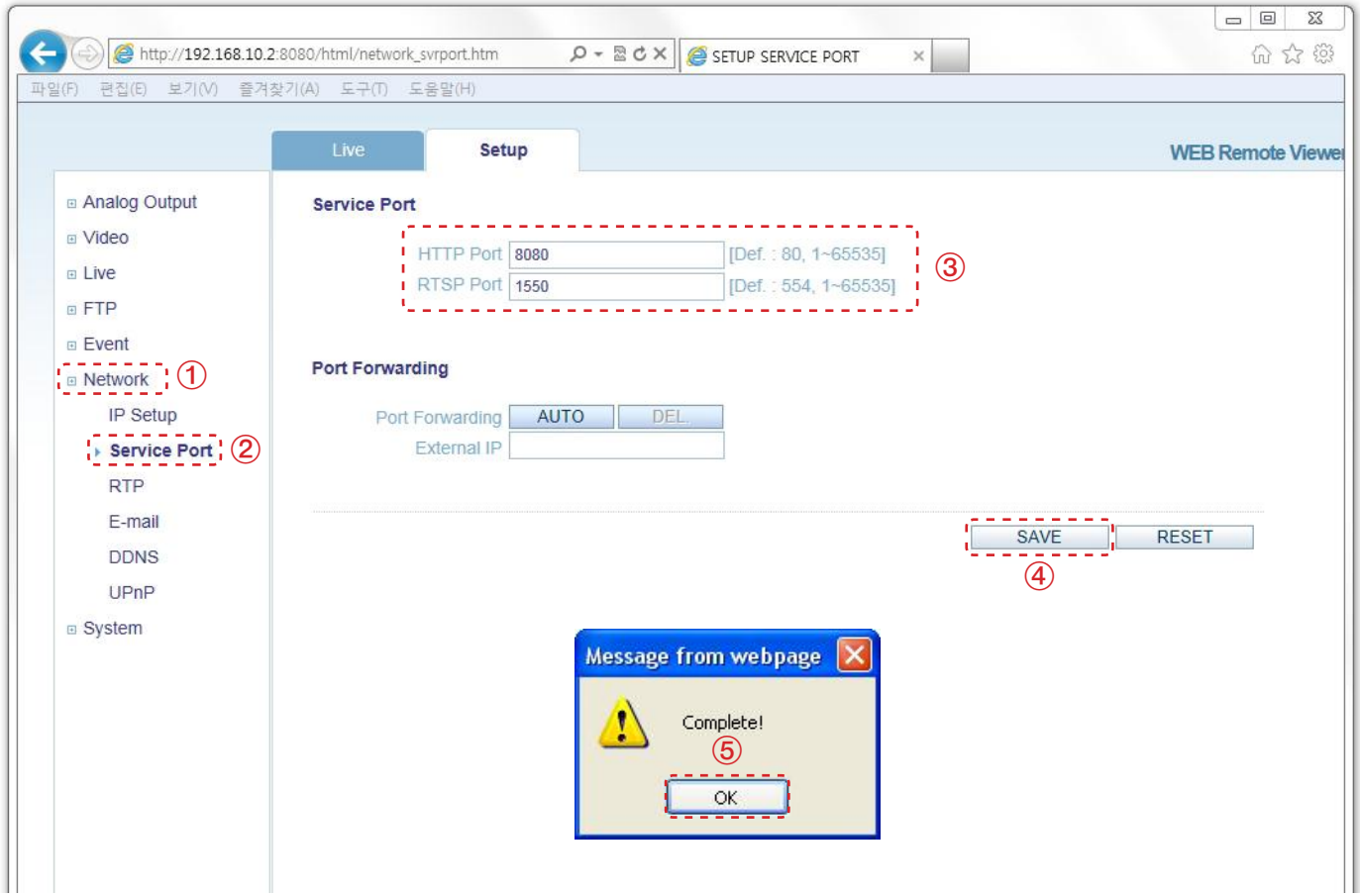
Master #1	HTTP Port	8080
	RTSP Port	1550
Master #2	HTTP Port	8082
	RTSP Port	1552

Master 4EA Setup

Master #1	HTTP Port	8080
	RTSP Port	1550
Master #2	HTTP Port	8081
	RTSP Port	1551
Master #3	HTTP Port	8082
	RTSP Port	1552
Master #4	HTTP Port	8083
	RTSP Port	1553

Step 7.

On the left menu, click Network — Service Port.
According to the number of masters, enter the HTTP Port and RTSP Port in the table on the left. Click SAVE then click OK.

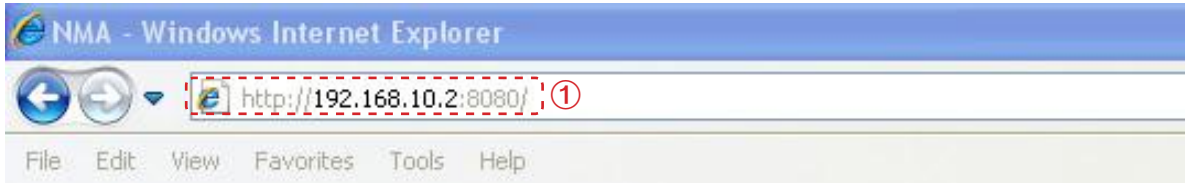


Camera setup

Step 8.

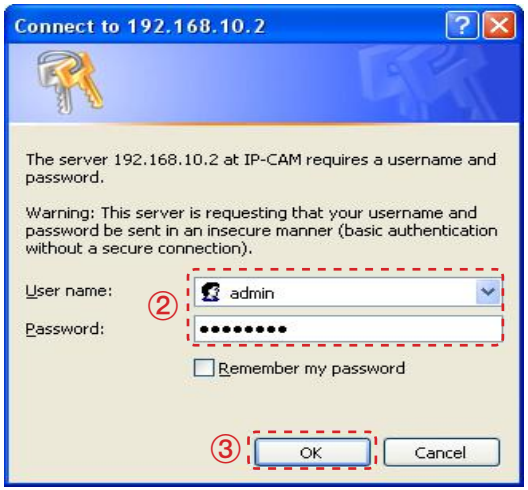
Open a new browser window and reconnect using the changed port number.

Master #1	8080 Port	http://192.168.10.2:8080
Master #2	8081 Port	http://192.168.10.2:8081
Master #3	8082 Port	http://192.168.10.2:8082



Step 9.

In the log-in prompt, enter
admin
12345678
and then click OK.

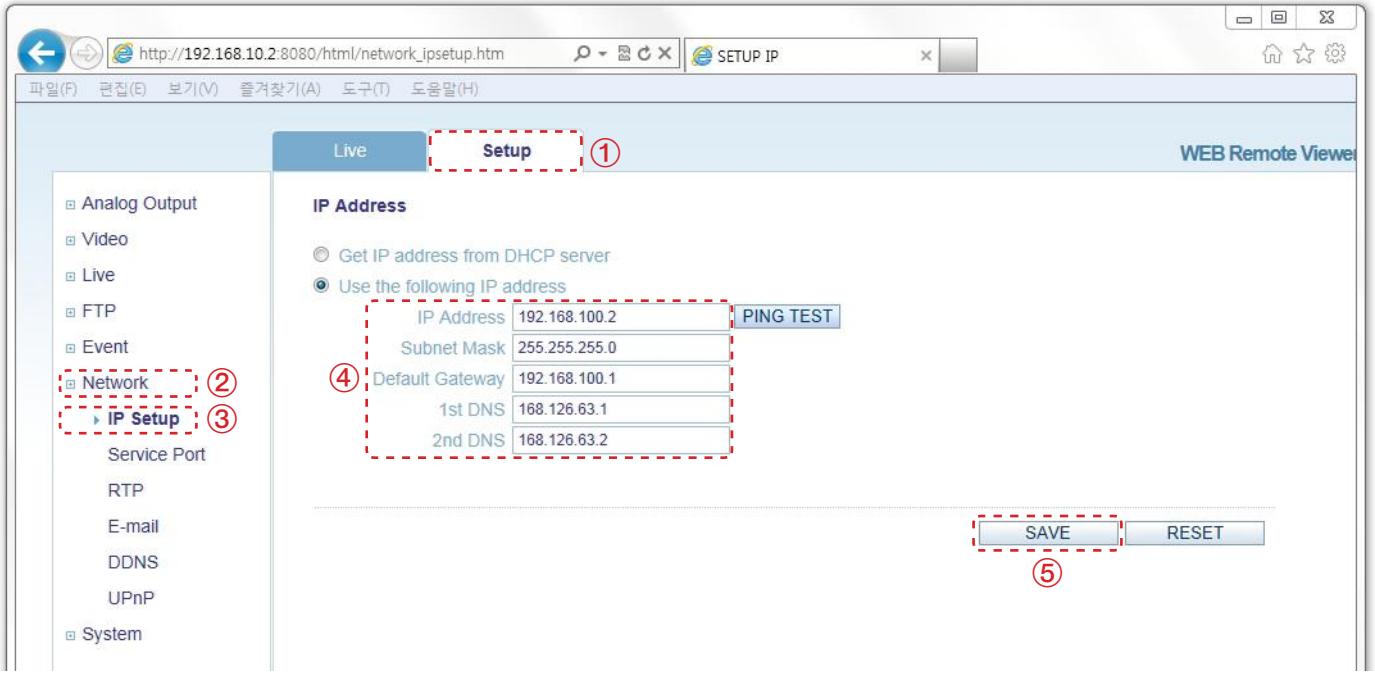


Step 10.

When the connection to the camera has been established, select the Setup tab and click Network — IP Setup on the left menu.

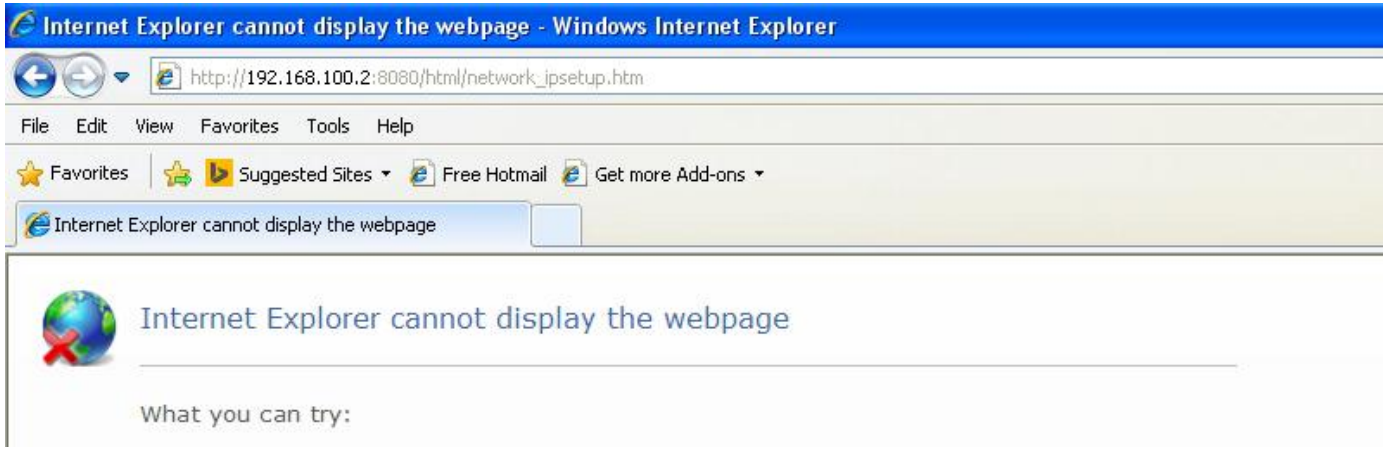
IP Address : 192.168.100.2
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.100.1

Change the settings and click SAVE.



Step 11.

When a prompt appears, click OK twice.
Setup is successful if the browser displays the message,
“Browser cannot display the Web page.”



SPES Camepa setup is successful. Follow the AP setup instructions on the next page.

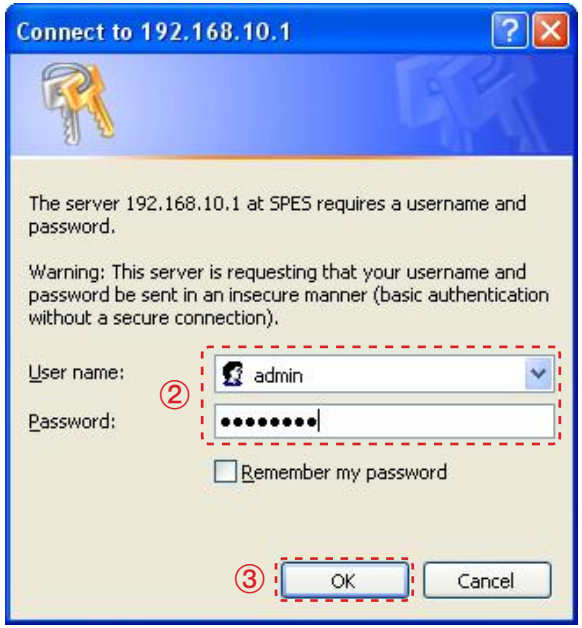
AP setup

Step 1.

Open a browser and enter
http://192.168.10.1 as the URL.

Step 2.

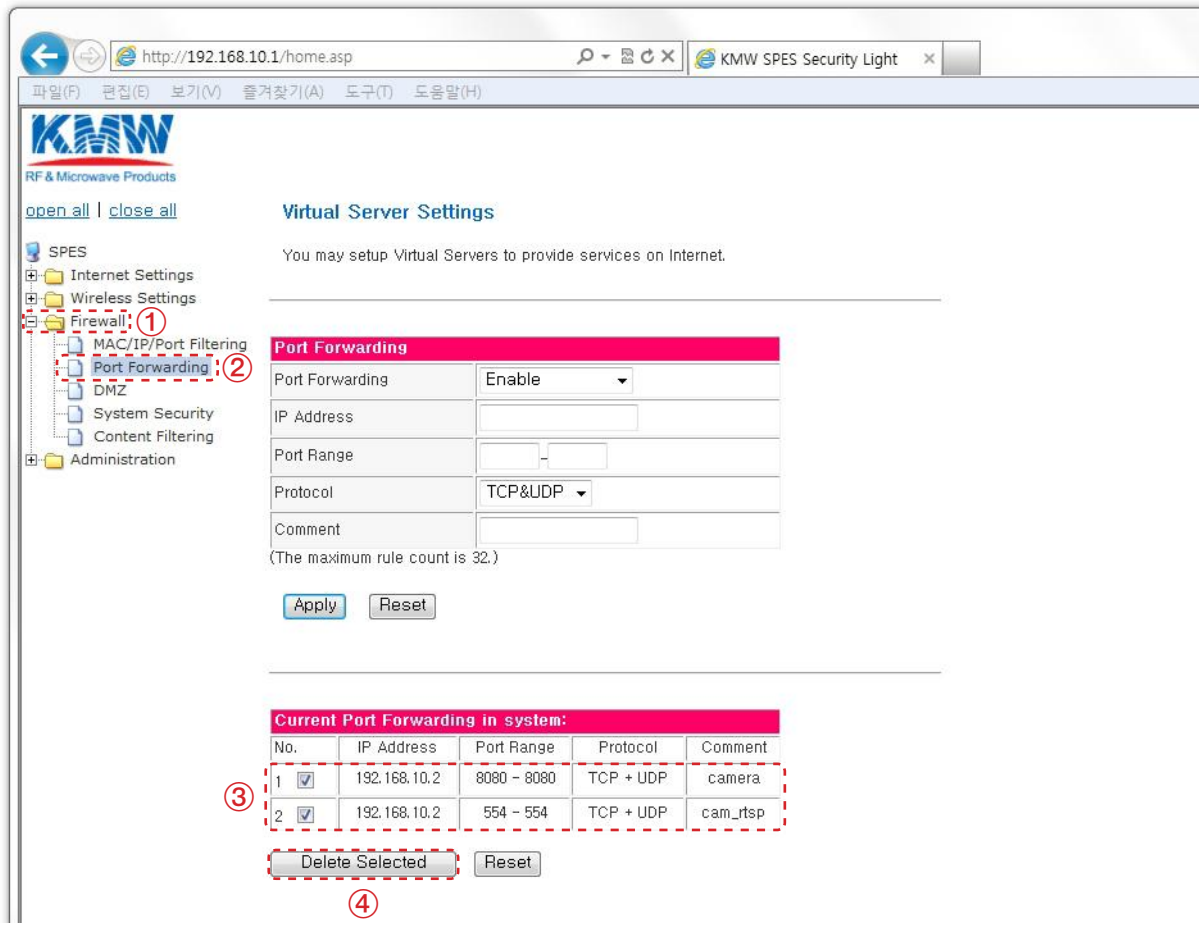
In the log-in prompt, enter
admin
12345678
and then click OK.



AP setup

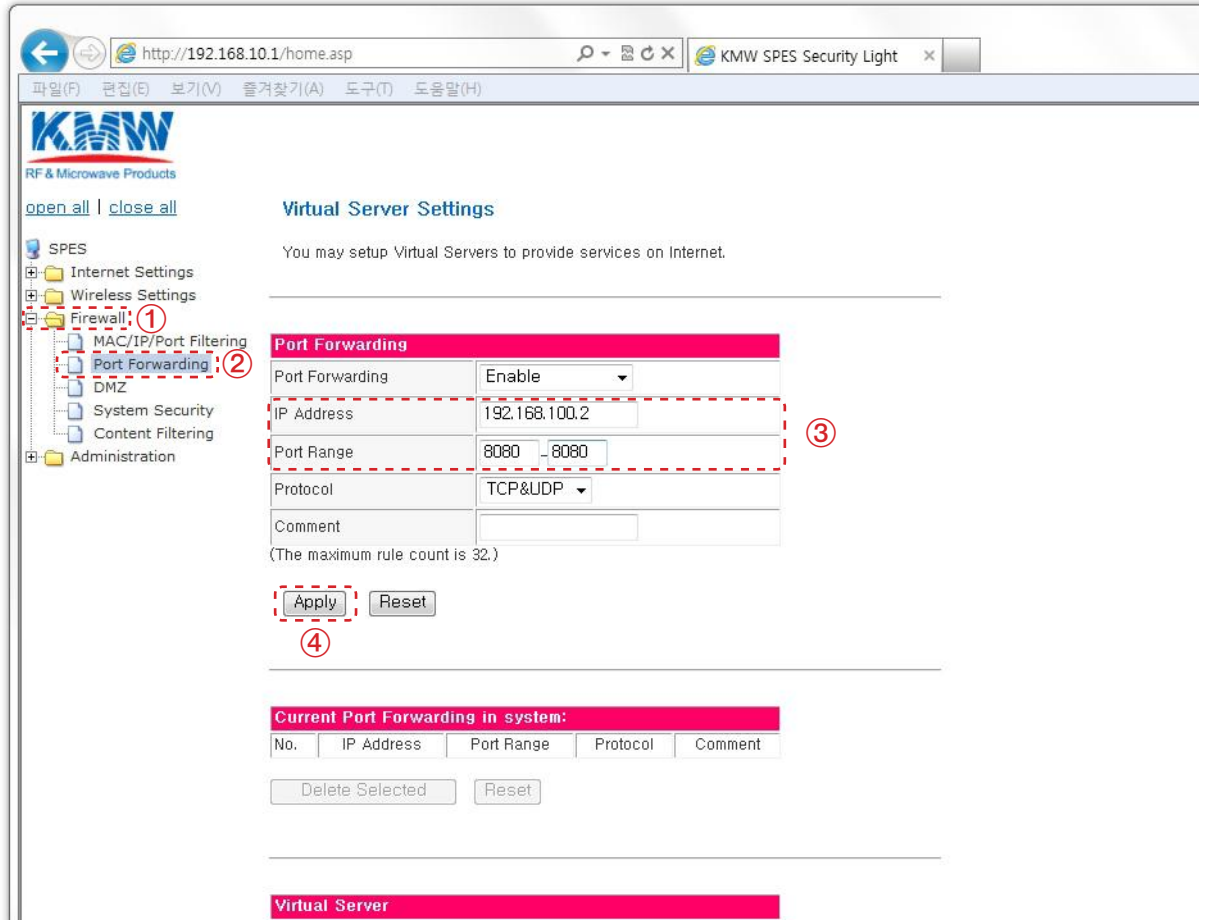
Step 3.

On the left menu, click Firewall — Port Forwarding and select the previously configured checkboxes in Current Port Forwarding in system then click Delete Selected to delete previous settings



Step 4.

Enter the master camera, slave camera,
and AP port value to be port-forwarded and click Apply.
▶ Refer to the next page for the port forwarding value of each item.



AP setup

Installation of 1 Master and 3 Slaves

Comment		Port Range	IP Address	Protocol
Master #1	Camera Port	8080 - 8080	192.168.100.2	TCP&UDP
	Camera RTSP Port	1550 - 1550		
Slave #1	Camera Port	8081 - 8081	192.168.100.11	
	Camera RTSP Port	1551 - 1551		
	AP Port	9081 - 9081		
Slave #2	Camera Port	8082 - 8082	192.168.100.12	
	Camera RTSP Port	1552 - 1552		
	AP Port	9082 - 9082		
Slave #3	Camera Port	8083 - 8083	192.168.100.13	
	Camera RTSP Port	1553 - 1553		
	AP Port	9083 - 9083		

AP setup

Installation of 2 Master and 2 Slaves

Comment		Port Range	IP Address	Protocol
Master #1	Camera Port	8080 - 8080	192.168.100.2	TCP&UDP
	Camera RTSP Port	1550 - 1550		
Slave #1	Camera Port	8081 - 8081	192.168.100.11	
	Camera RTSP Port	1551 - 1551		
	AP Port	9081 - 9081		
Master #2	Camera Port	8082 - 8082	192.168.100.2	
	Camera RTSP Port	1552 - 1552		
Slave #2	Camera Port	8083 - 8083	192.168.100.11	
	Camera RTSP Port	1553 - 1553		
	AP Port	9083 - 9083		

Installation of 4 Master

Comment		Port Range	IP Address	Protocol
Master #1	Camera Port	8080 - 8080	192.168.100.2	TCP&UDP
	Camera RTSP Port	1550 - 1550		
Master #2	Camera Port	8081 - 8081	192.168.100.2	
	Camera RTSP Port	1551 - 1551		
Master #3	Camera Port	8082 - 8082	192.168.100.2	
	Camera RTSP Port	1552 - 1552		
Master #4	Camera Port	8083 - 8083	192.168.100.2	
	Camera RTSP Port	1553 - 1553		

AP setup

Master 1EA / Slave 3EA

Master #1	9080

Master 2EA / Slave 2EA

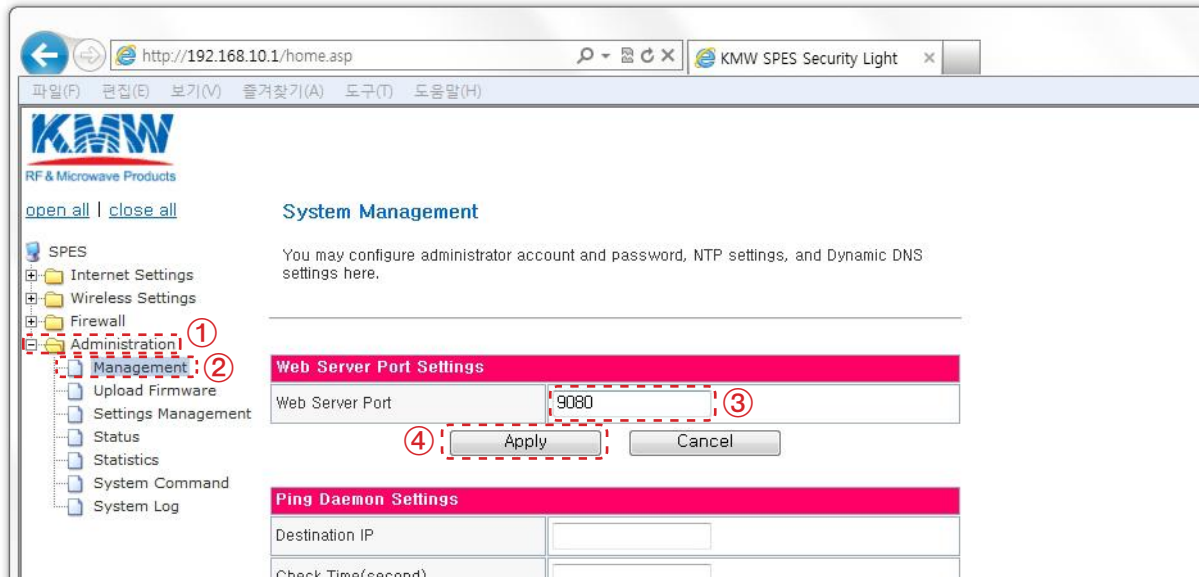
Master #1	9080
Master #2	9082

Master 4EA

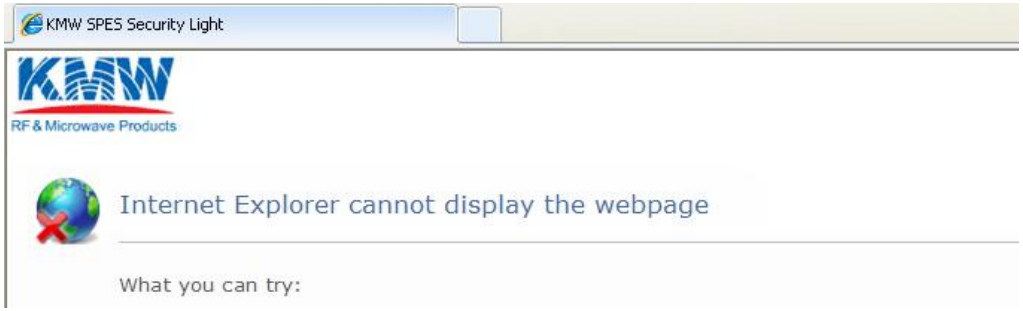
Master #1	9080
Master #2	9081
Master #3	9082
Master #4	9083

Step 5.

On the left menu, click Administration-Management.
Change the Web Server Port and click Apply.



"Browser cannot display the Web page." Message indicates that the setup is successful.



AP setup

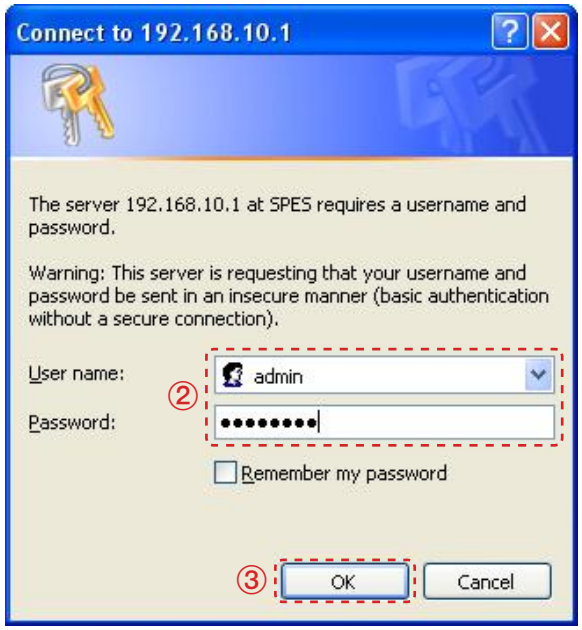
Step 6.

Open a new browser window and try to connect to the changed AP.

▶ http://192.168.10.1:9080

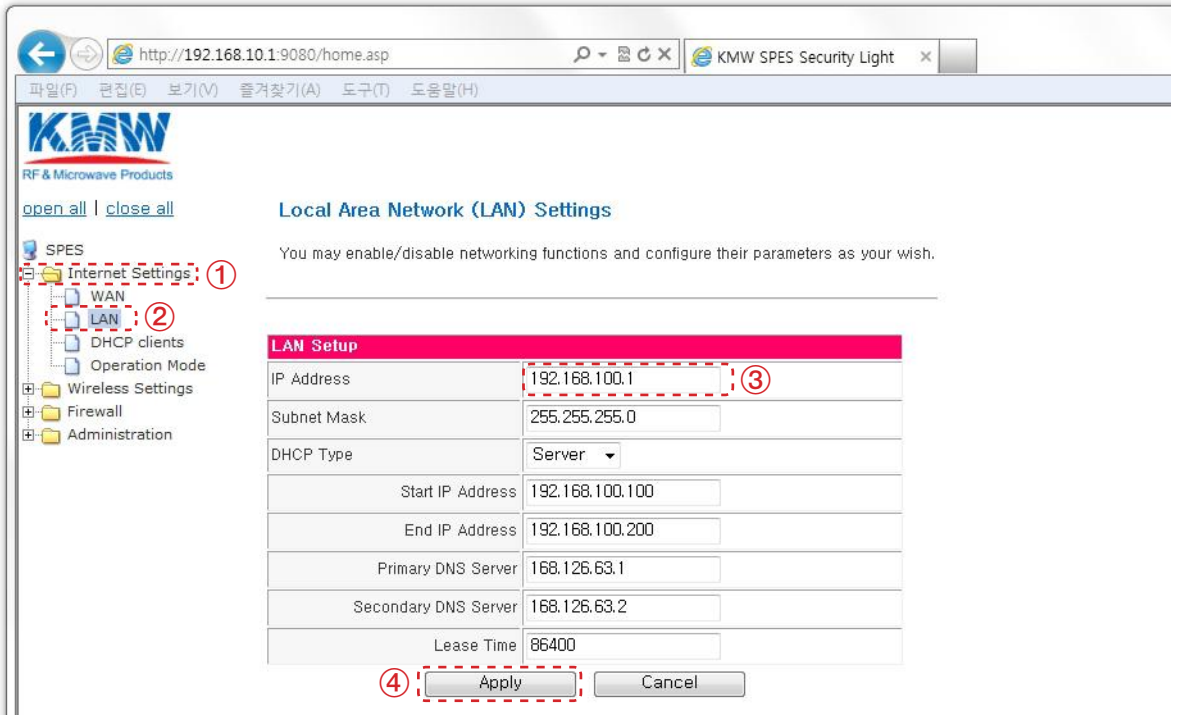
Step 7.

In the log-in prompt, enter
admin
12345678
and then click OK.



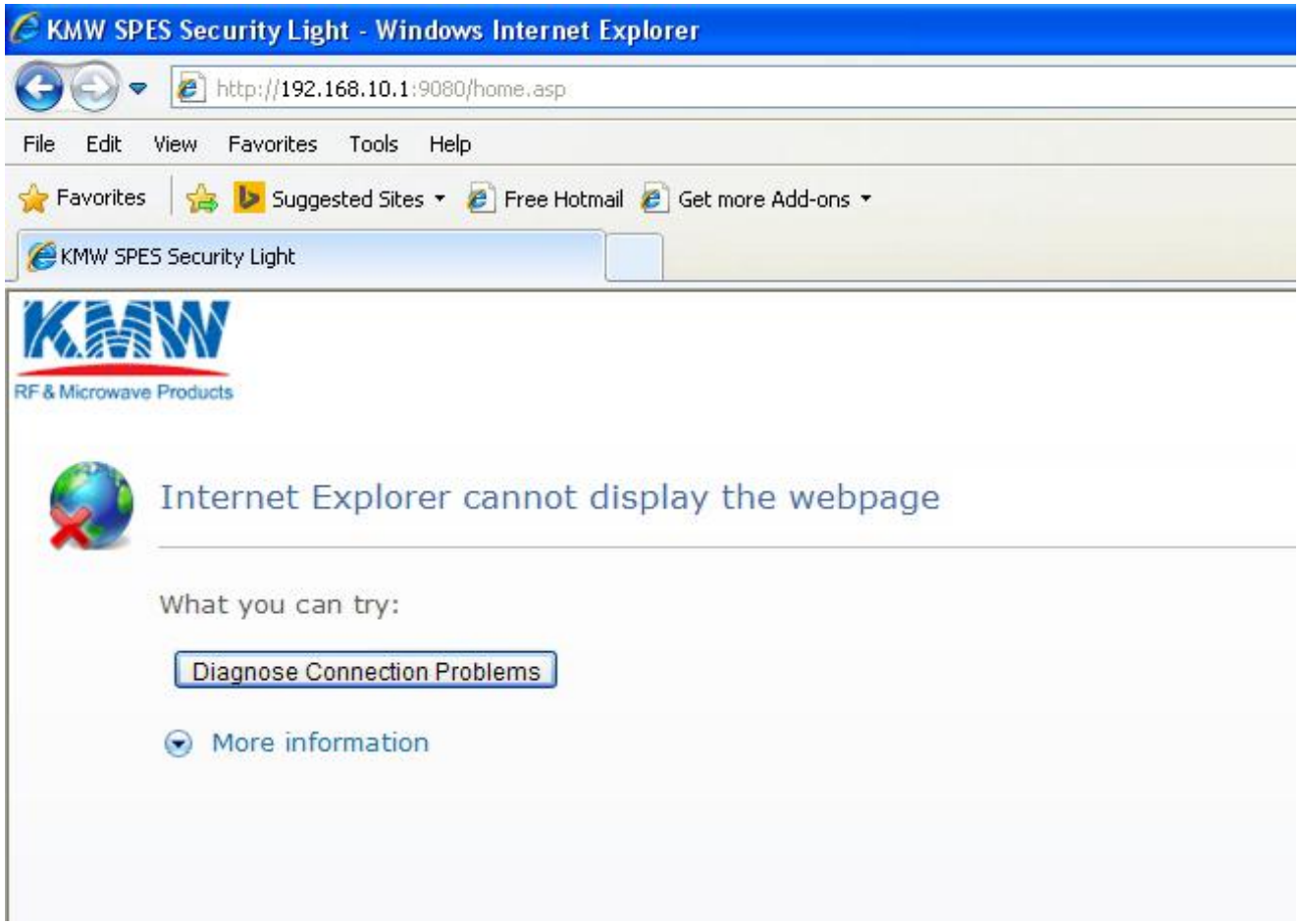
Step 8.

On the left menu, click Internet Settings-LAN.
Change the IP address to 192.168.100.1 and click Apply.



Step 9.

"Browser cannot display the Web page."
Message indicates that the setup is successful.



AP setup

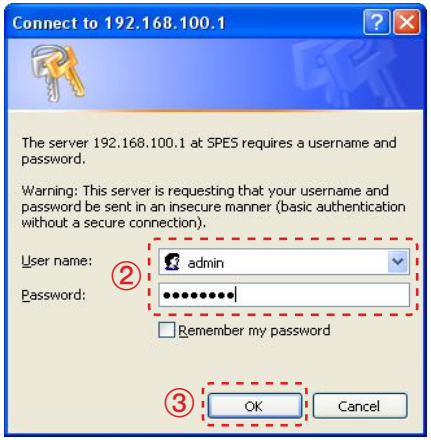
Step 10.

Open a new browser window and try to connect to the AP with the new IP address.

▶ http://192.168.100.1:9080

Step 11.

In the log-in prompt, enter
admin
12345678
and then click OK.



AP setup

Master 1EA / Slave 3EA

Master #1 IP	192.168.200.200

Master 2EA / Slave 2EA

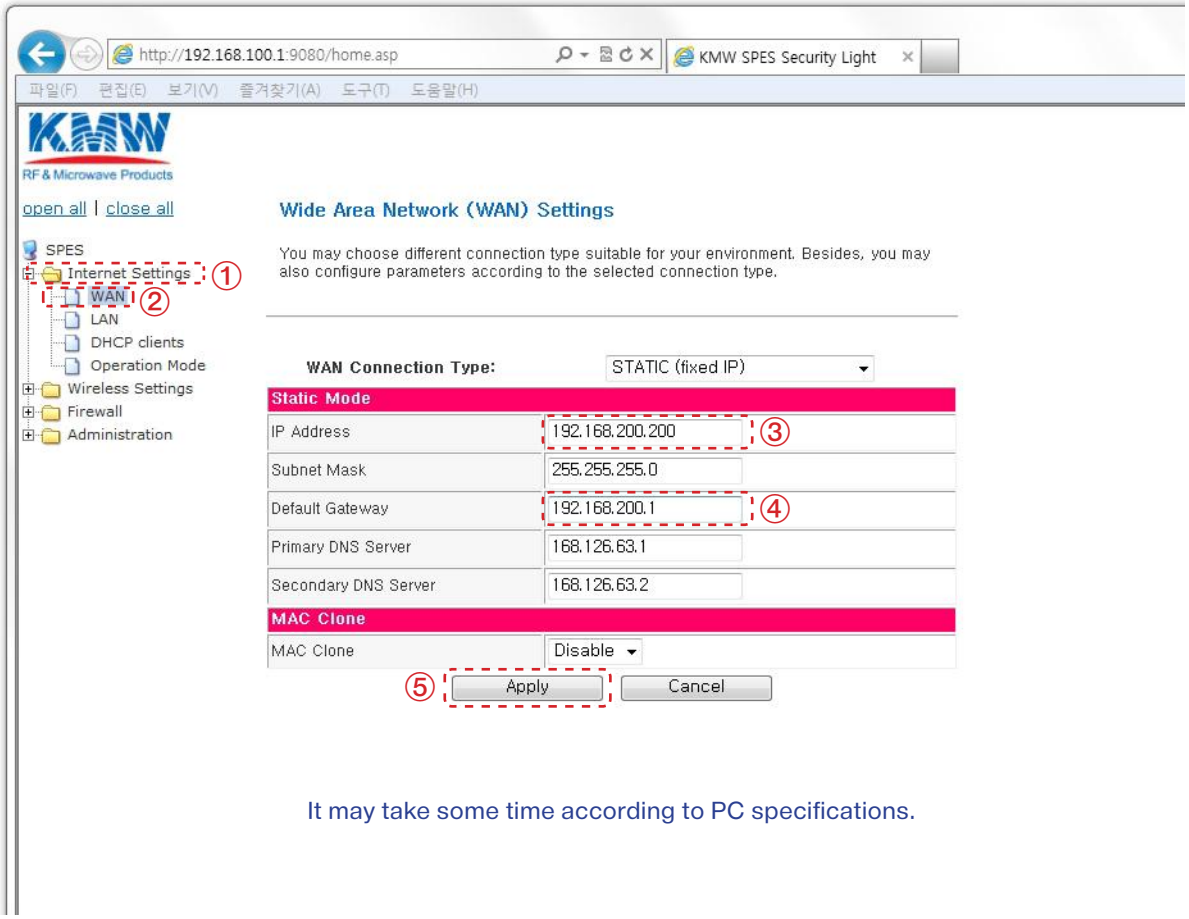
Master #1 IP	192.168.200.200
Master #2 IP	192.168.200.201

Master 4EA

Master #1 IP	192.168.200.200
Master #2 IP	192.168.200.201
Master #3 IP	192.168.200.202
Master #4 IP	192.168.200.203

Step 12.

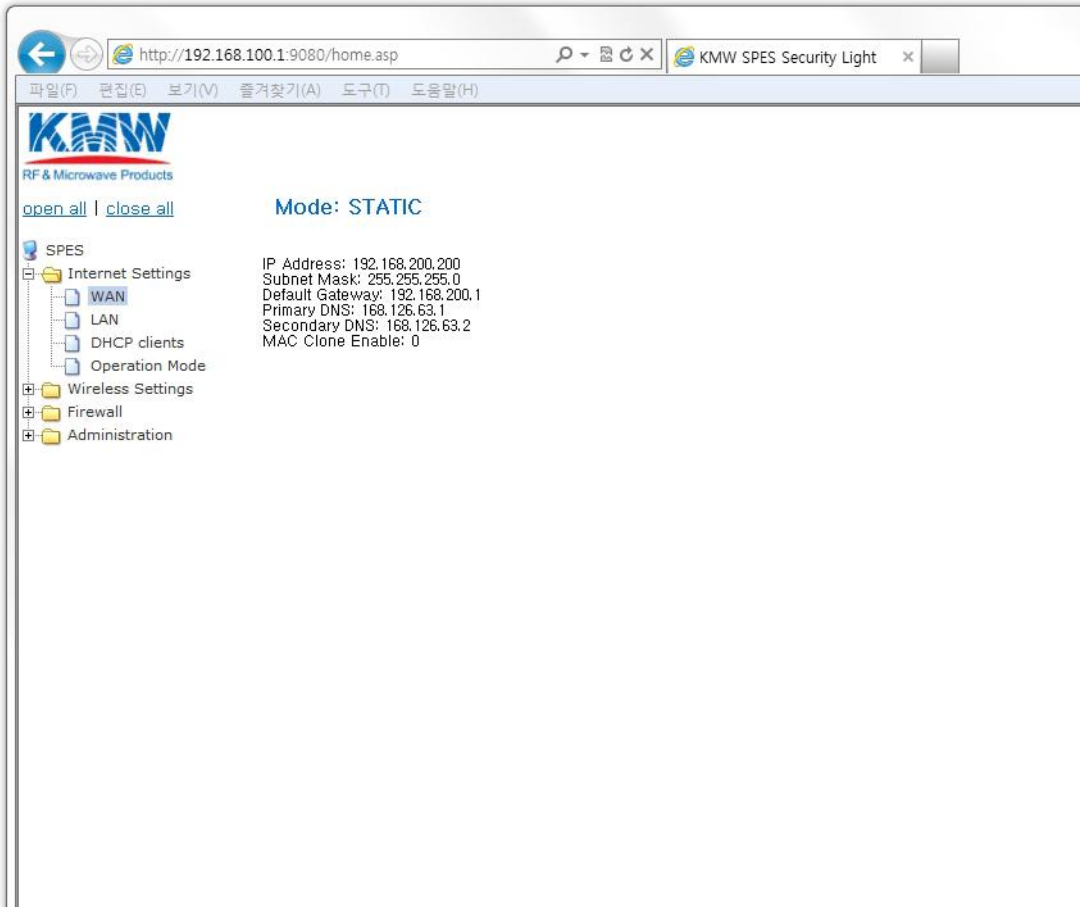
On the left menu, click Internet Settings- WAN.
Enter 192.168.200.200 ~ 203 for the IP address and 192.168.200.1 for the Default Gateway. Click Apply.



It may take some time according to PC specifications.

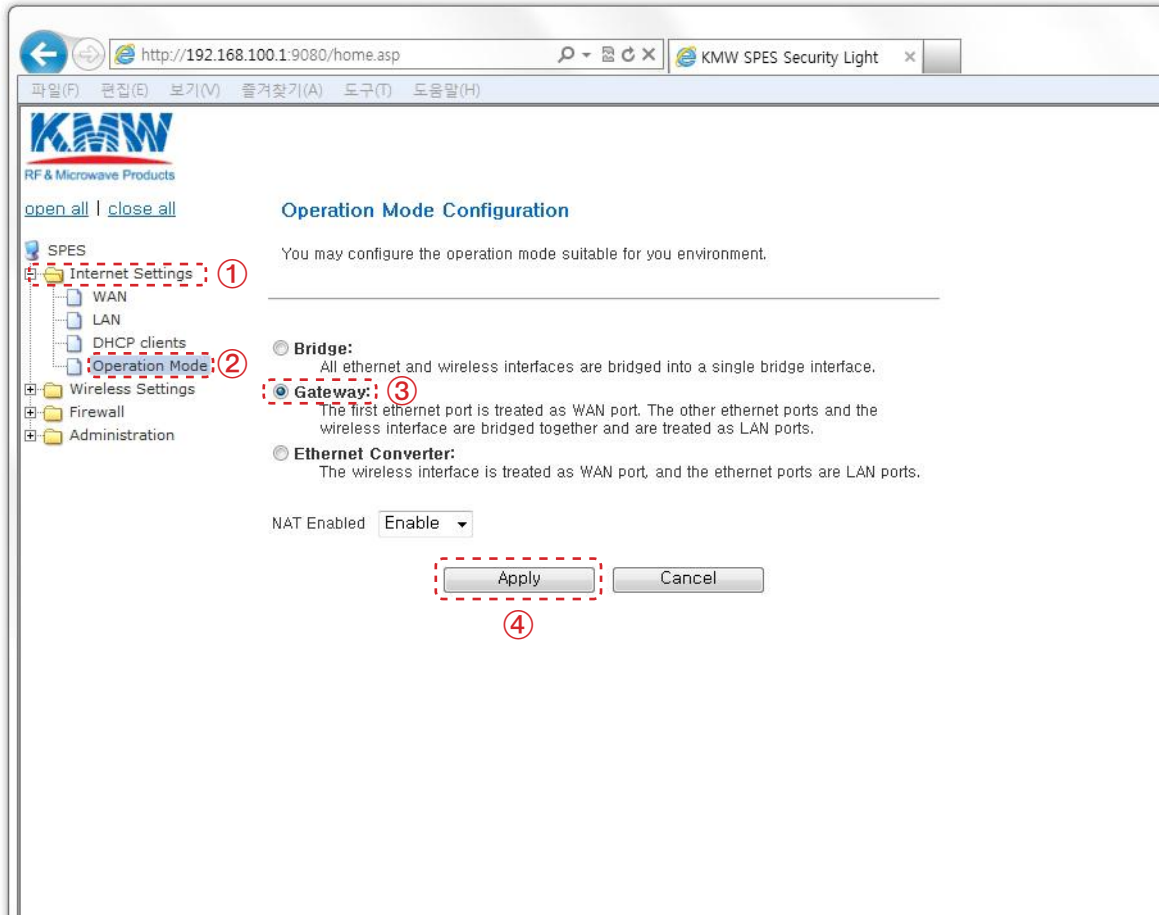
Step 13.

Check the changed IP address and Default Gateway.



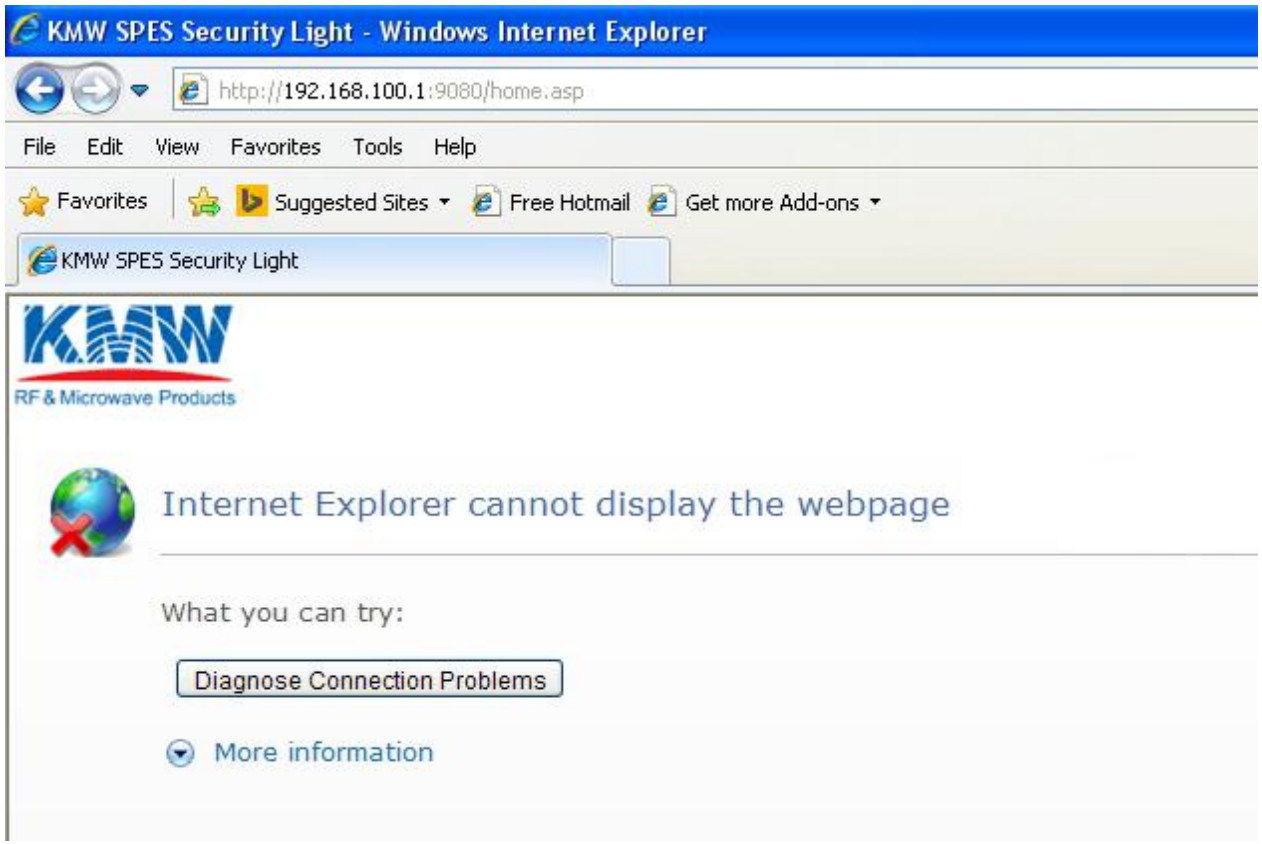
Step 14.

On the left menu, click Internet Settings - Operation Mode.
Select the gateway checkbox and click Apply to switch to Master Mode



Step 15.

The connection of SPES and computer is disconnected momentarily, and then “Internet Explorer cannot display the Web page.” message indicates that the setup is successful.



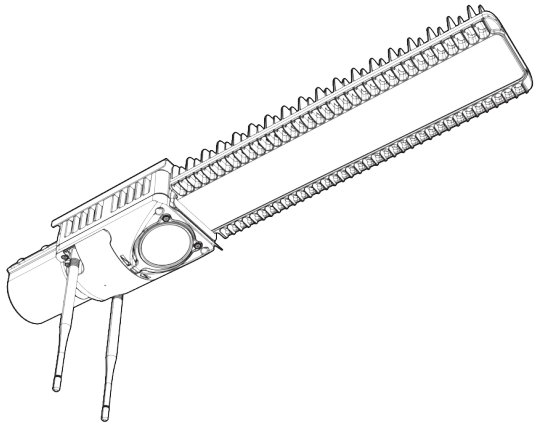
SPES Master setup is successful. Follow the Slave setup instructions on the next page.

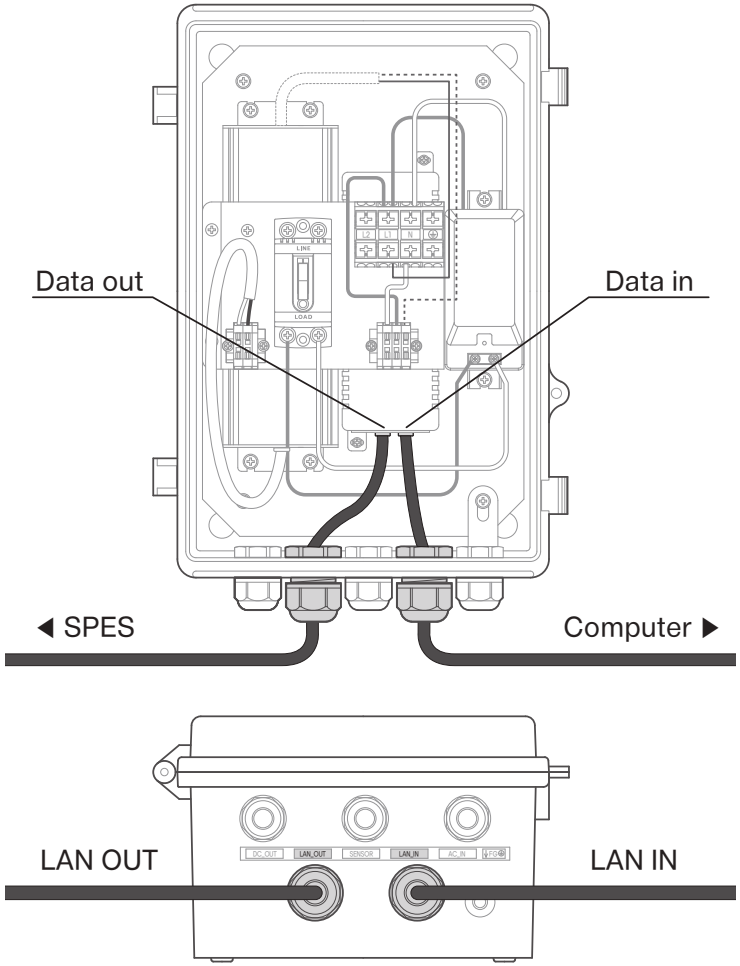
Slave setup

Slave setup

Pre-installation check

SPES-Power Box — Check the PC connection and start setup. (Refer to the SPES070 Installation Guide.)

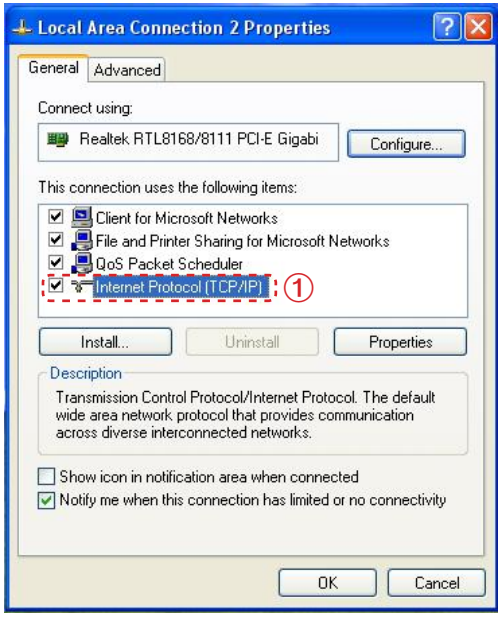




Camera setup

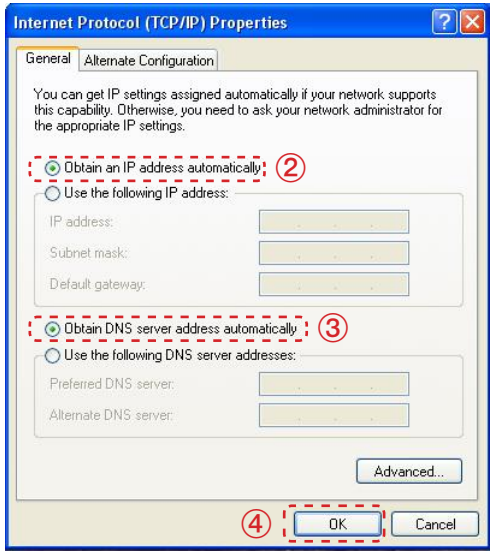
Step 1.

Local area network configuration,
select TCP/IPv4



Step 2.

Automatic IP address assignment
Select “Auto DNS Server Address Assignment” and click OK.



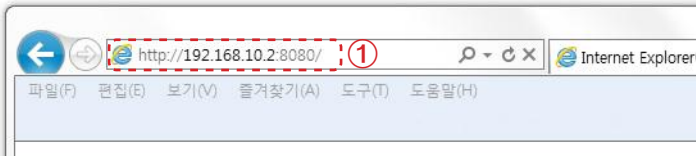
It may take some time according to PC specifications.

Slave setup

Camera setup

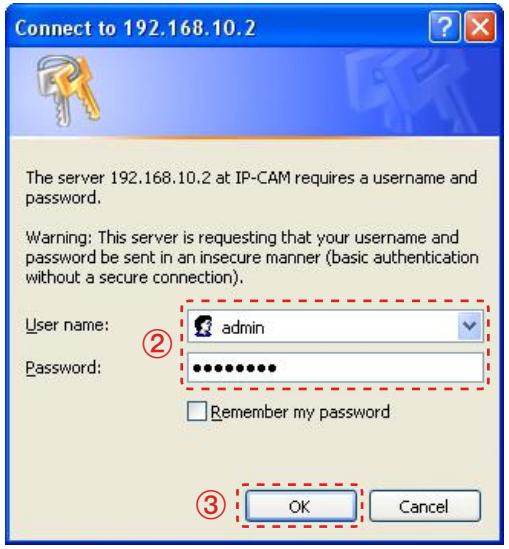
Step 3.

Open a browser and enter
http://192.168.10.2:8080 as the URL.



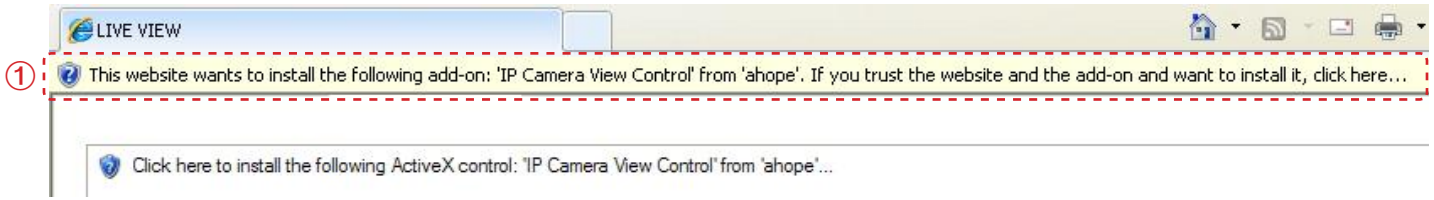
Step 4.

In the log-in prompt, enter
admin
12345678
and then click OK.



Step 5.

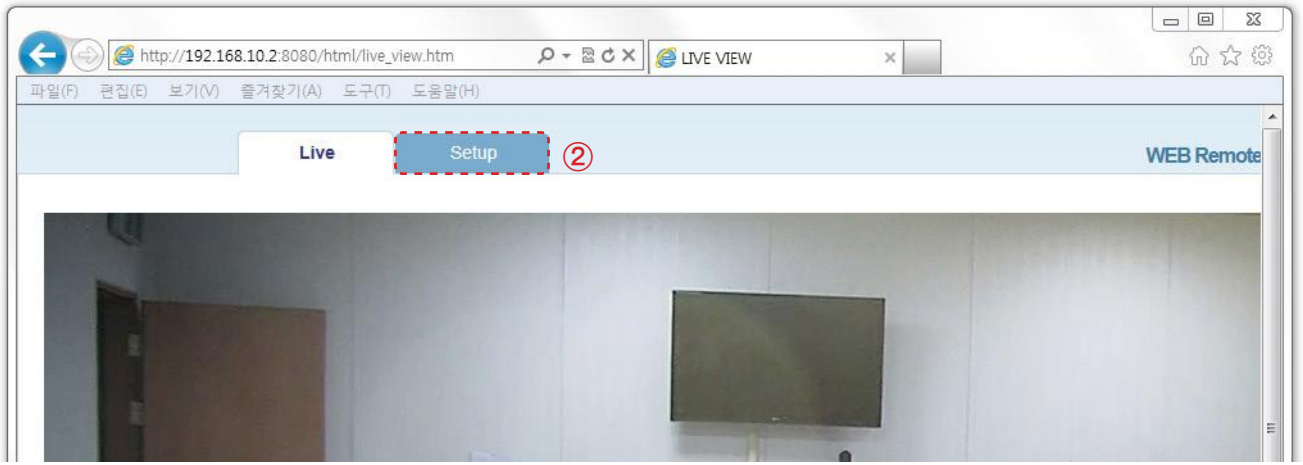
“ IP Camera View Control ” Installation
▶ You can download the software from GigaTera’s Web site.



It may take some time according to PC specifications.

Step 6.

If the camera is connected, click the Setup tab.



Slave setup

Camera setup

Master : 1ea / Slave : 3ea

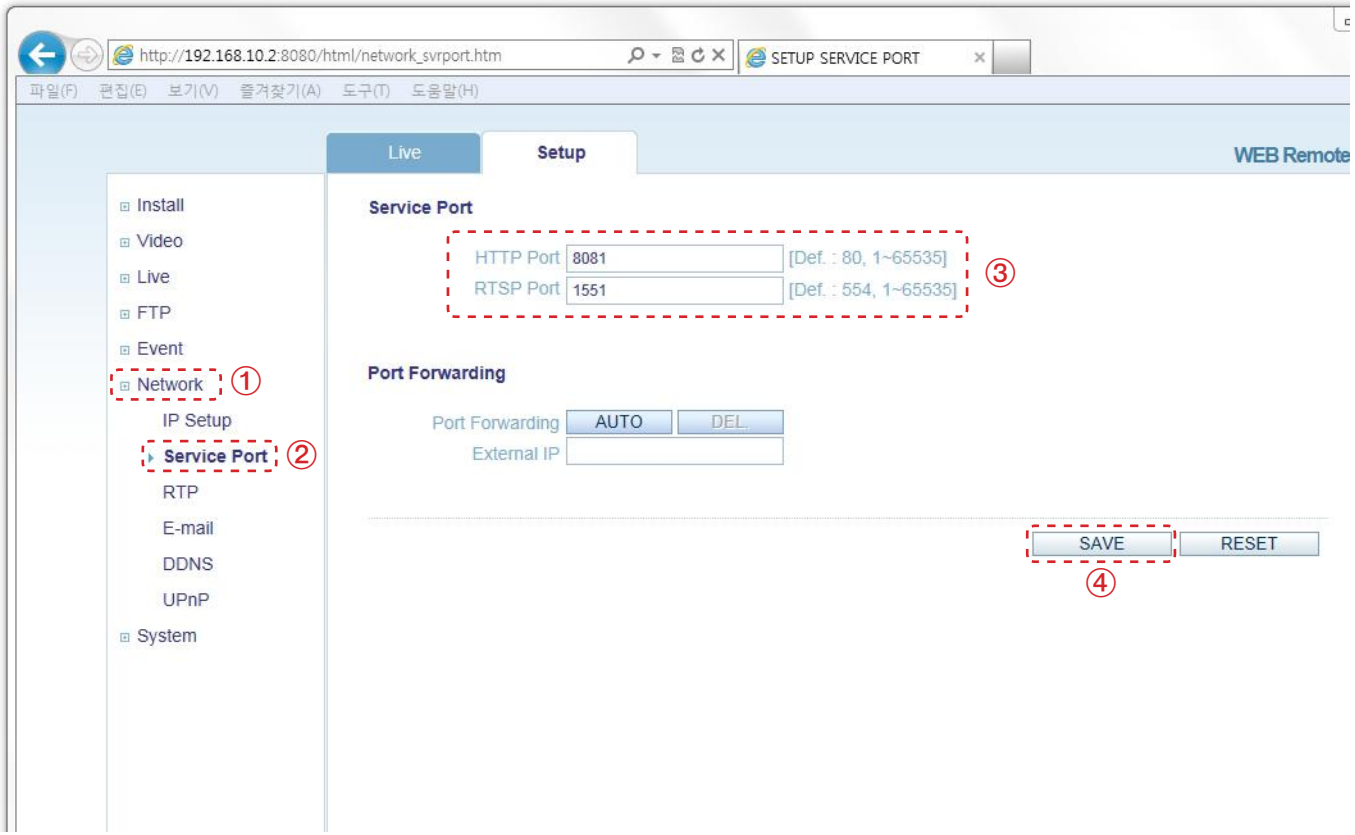
Slave #1	HTTP Port	8081
	RTSP Port	1551
Slave #2	HTTP Port	8082
	RTSP Port	1552
Slave #3	HTTP Port	8083
	RTSP Port	1553

Master : 2ea / Slave : 2ea

Slave #1	HTTP Port	8081
	RTSP Port	1551
Slave #2	HTTP Port	8083
	RTSP Port	1553

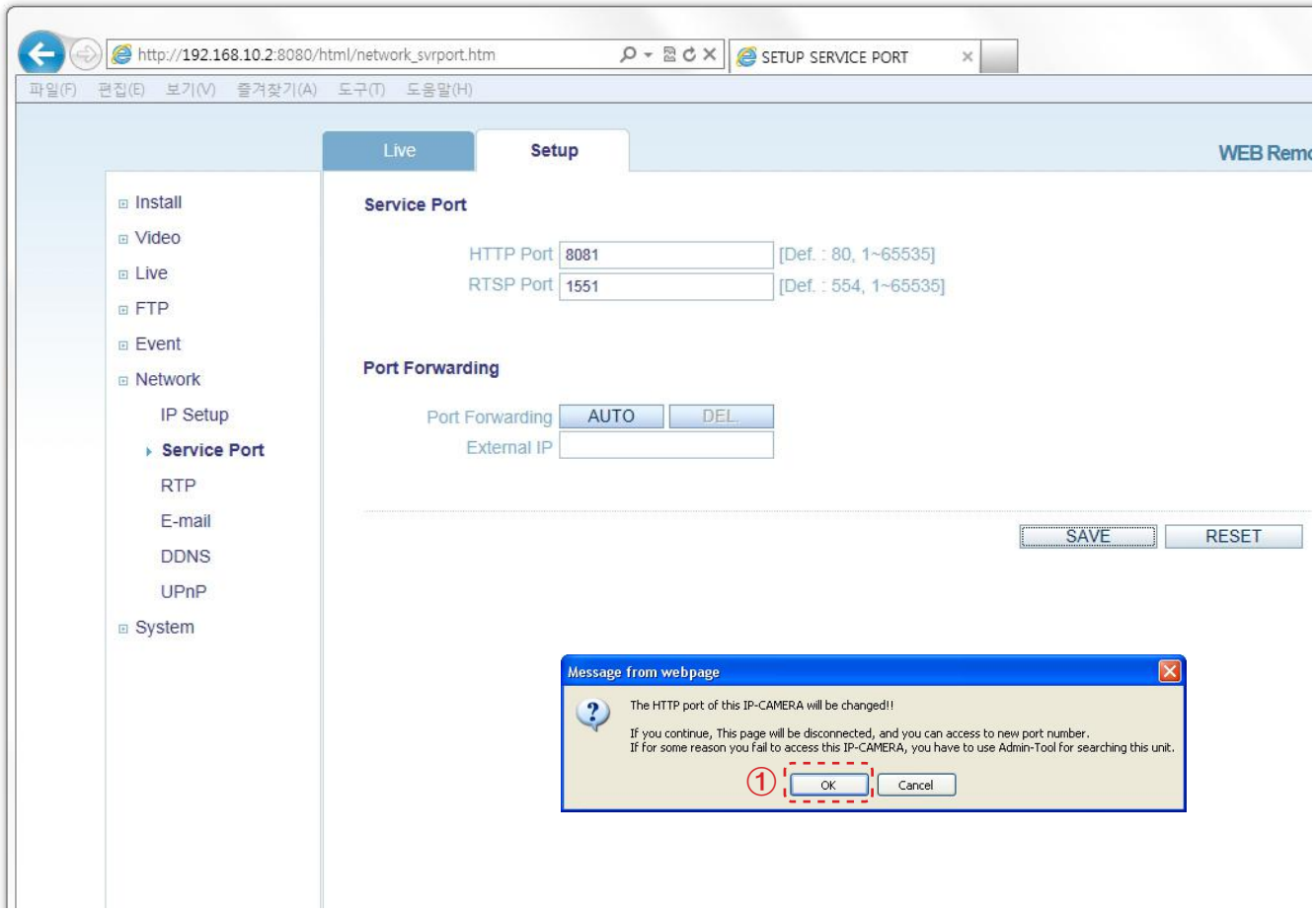
Step 7.

On the left menu, click Network - Service Port.
According to the number of masters, enter the HTTP Port and RTSP Port in the table on the left. Click SAVE then click OK.



Step 8.

When a Camera settings changed pop-up window is displayed, click OK to finish

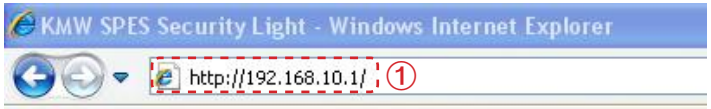


SPES CAMERA setup is successful. Follow the AP setup instructions on the next page.

AP setup

Step 1.

Open a browser and enter
http://192.168.10.1 as the URL.

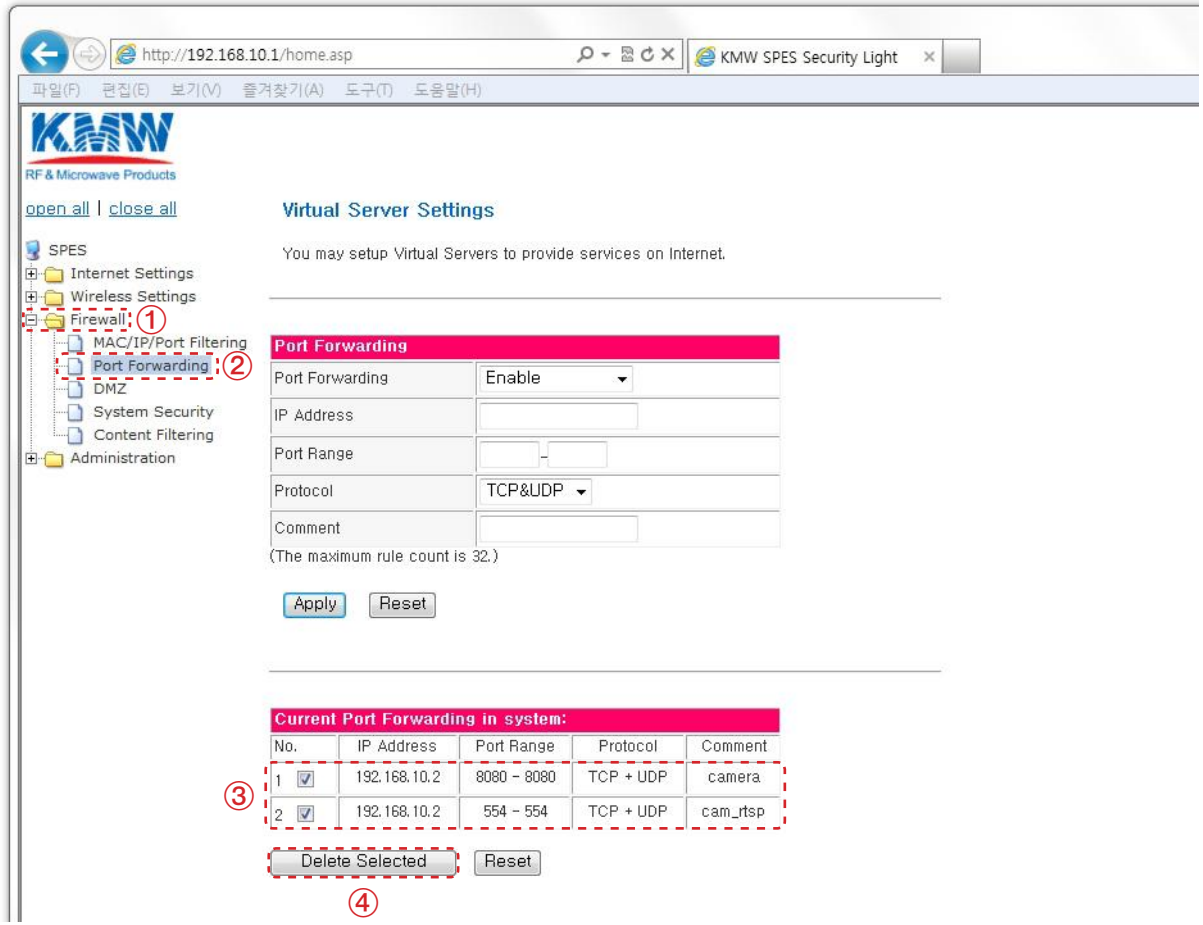


Step 2.

In the log-in prompt, enter
admin
12345678
and then click OK.

Step 3.

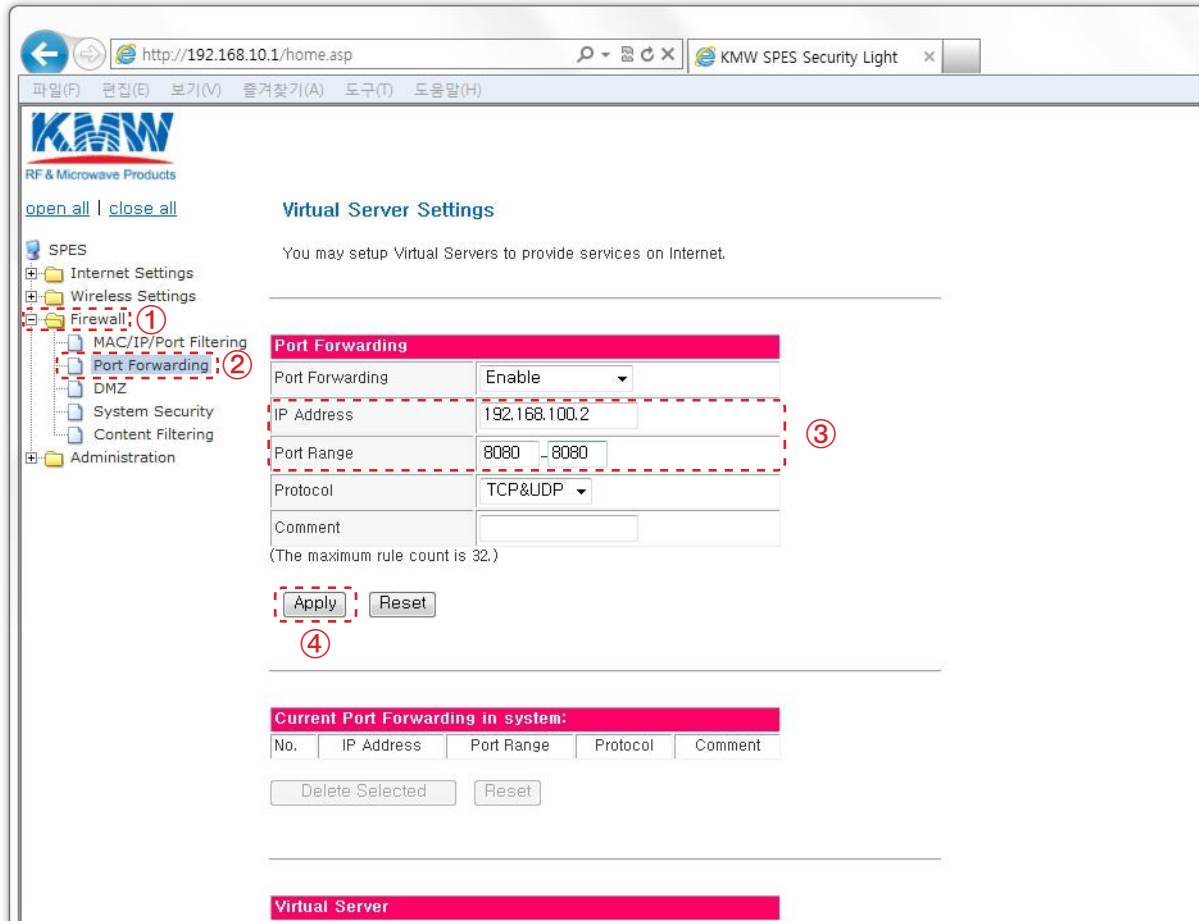
On the left menu, click Firewall - Port Forwarding
and select the previously configured checkboxes in Current Port Forwarding
in system and click “Delete Selected” to delete previous settings.



Step 4.

On the left menu, click Administration-Management.
Enter the Web Server Port and click Apply.

▶ Refer to the next page for the port forwarding value of each item.



Slave setup

AP setup

Master 1EA / Slave 3EA Setup

Comment		Port Range	IP Address	Protocol
Slave #1	Camera Port	8081 - 8081	192.168.10.2	TCP&UDP
	Camera RTSP Port	1551 - 1551		
Slave #2	Camera Port	8082 - 8082		
	Camera RTSP Port	1552 - 1552		
Slave #3	Camera Port	8083 - 8083		
	Camera RTSP Port	1553 - 1553		

Master 2EA / Slave 2EA Setup

Slave #1	Camera Port	8081 - 8081	192.168.10.2	TCP&UDP
	Camera RTSP Port	1551 - 1551		
Slave #2	Camera Port	8083 - 8083		
	Camera RTSP Port	1553 - 1553		

AP setup

Master 1EA / Slave 3EA

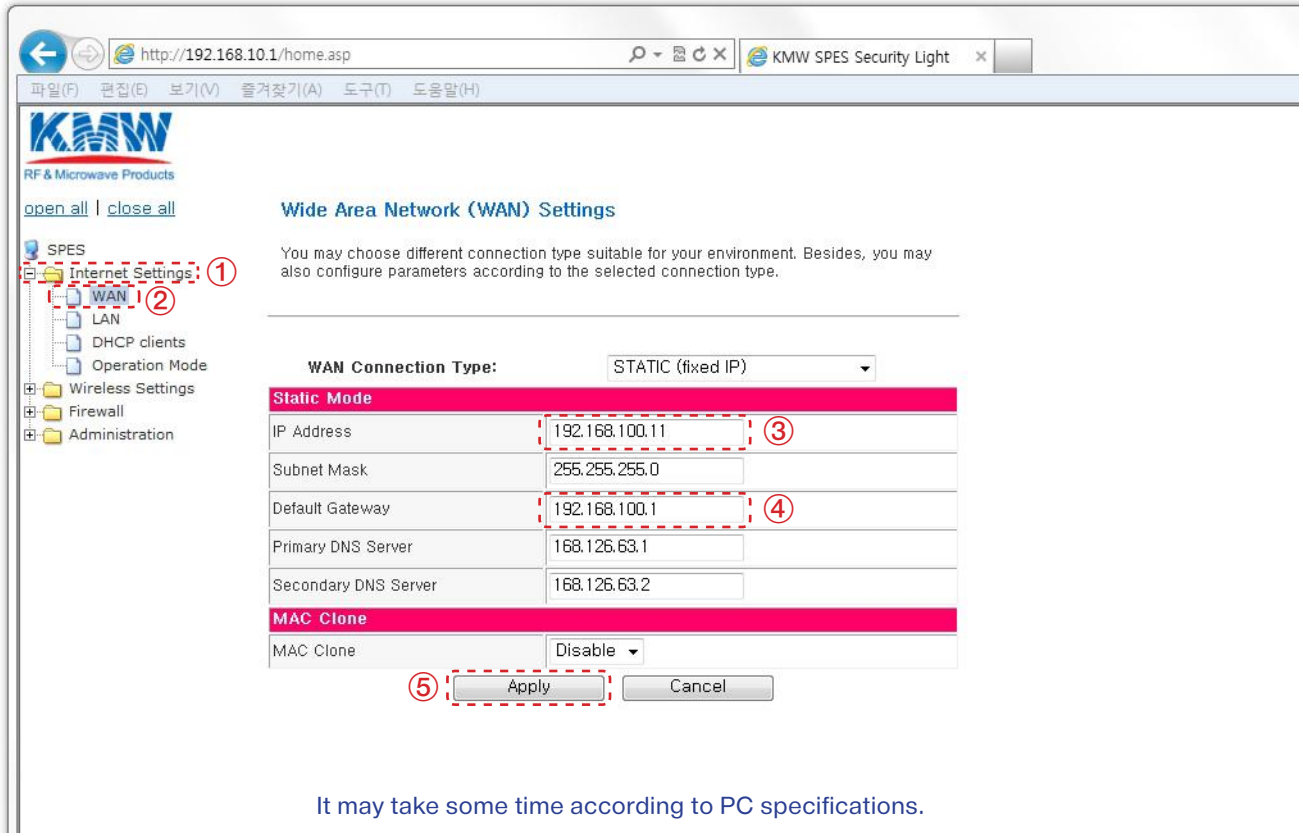
Slave #1 IP	192.168.100.11
Slave #2 IP	192.168.100.12
Slave #3 IP	192.168.100.13

Master 2EA / Slave 2EA

Slave #1 IP	192.168.100.11
Slave #2 IP	192.168.100.11

Step 5.

On the left menu, click Internet Settings - WAN.
Enter 192.168.100.11~13 for the IP address and
192.168.100.1 for the Default Gateway. Click Apply.



It may take some time according to PC specifications.

AP setup

Master 1EA / Slave 3EA

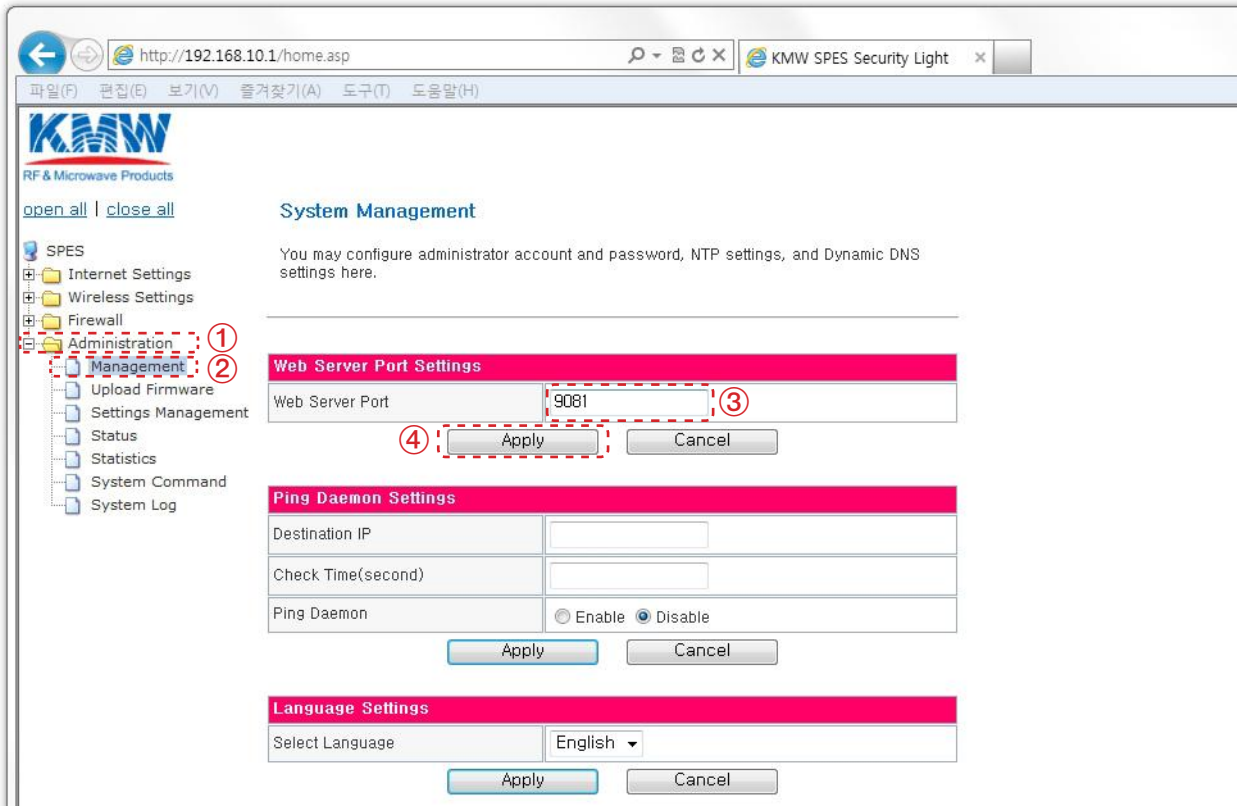
Slave #1	9081
Slave #2	9082
Slave #3	9083

Master 2EA / Slave 2EA

Slave #1	9081
Slave #2	9083

Step 6.

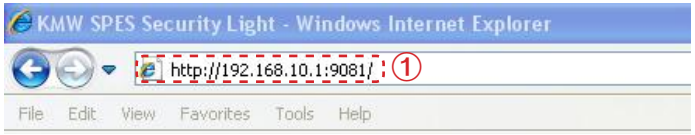
On the left menu, click Administration-Management.
Change the Web Server Port and click Apply.



AP setup

Step 7.

Open a new browser window and try to connect to the changed AP.



Master 1EA / Slave 3EA

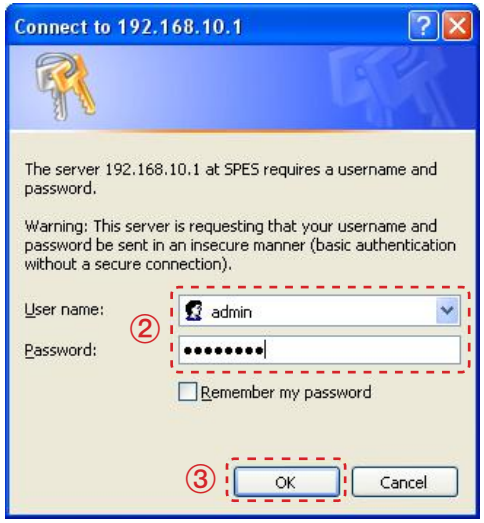
Slave #1	192.168.100.1:9081
Slave #2	192.168.100.1:9082
Slave #3	192.168.100.1:9083

Master 2EA / Slave 2EA

Slave #1	192.168.100.1:9081
Slave #2	192.168.100.1:9083

Step 8.

In the log-in prompt, enter
admin
12345678
and then click OK.

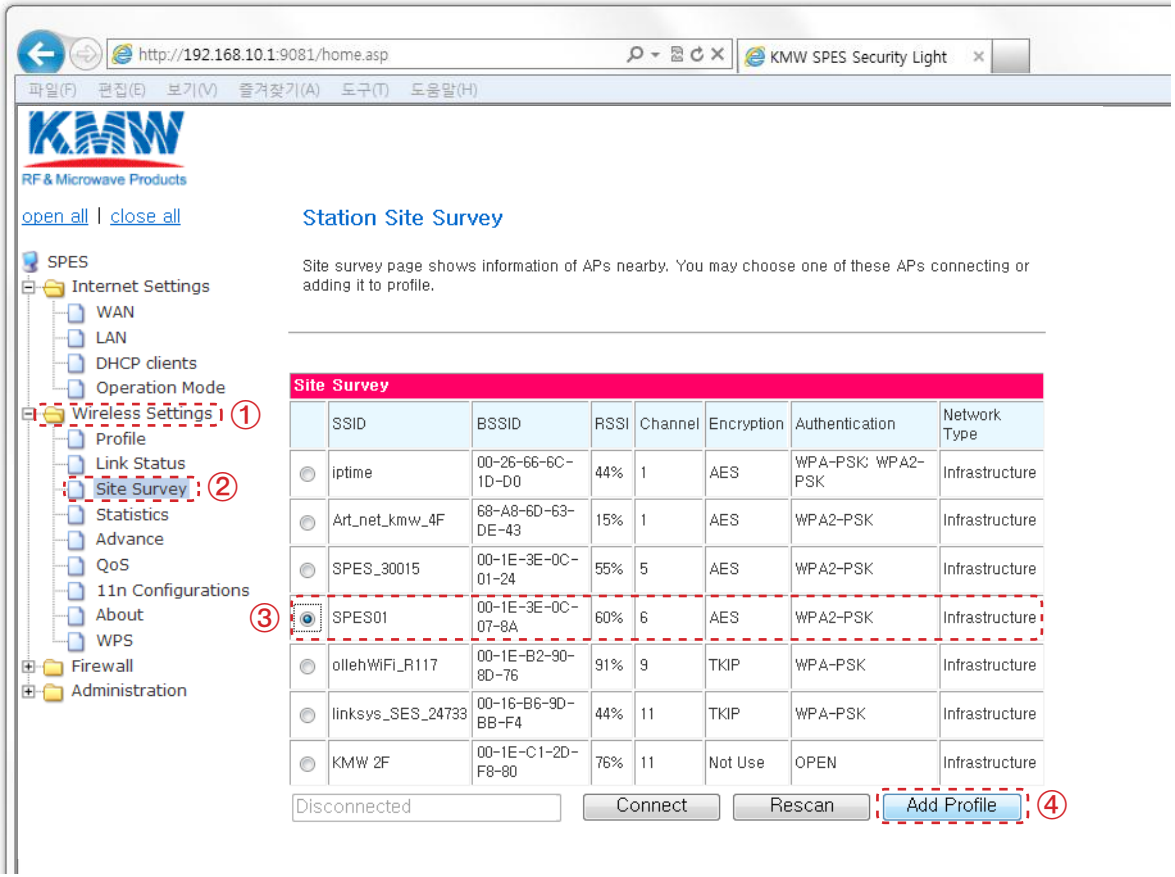


AP setup

Step 9.

On the left menu, click Wireless Settings — Site Survey.”
Select the SSID checkbox of corresponding master and click ADD Profile.

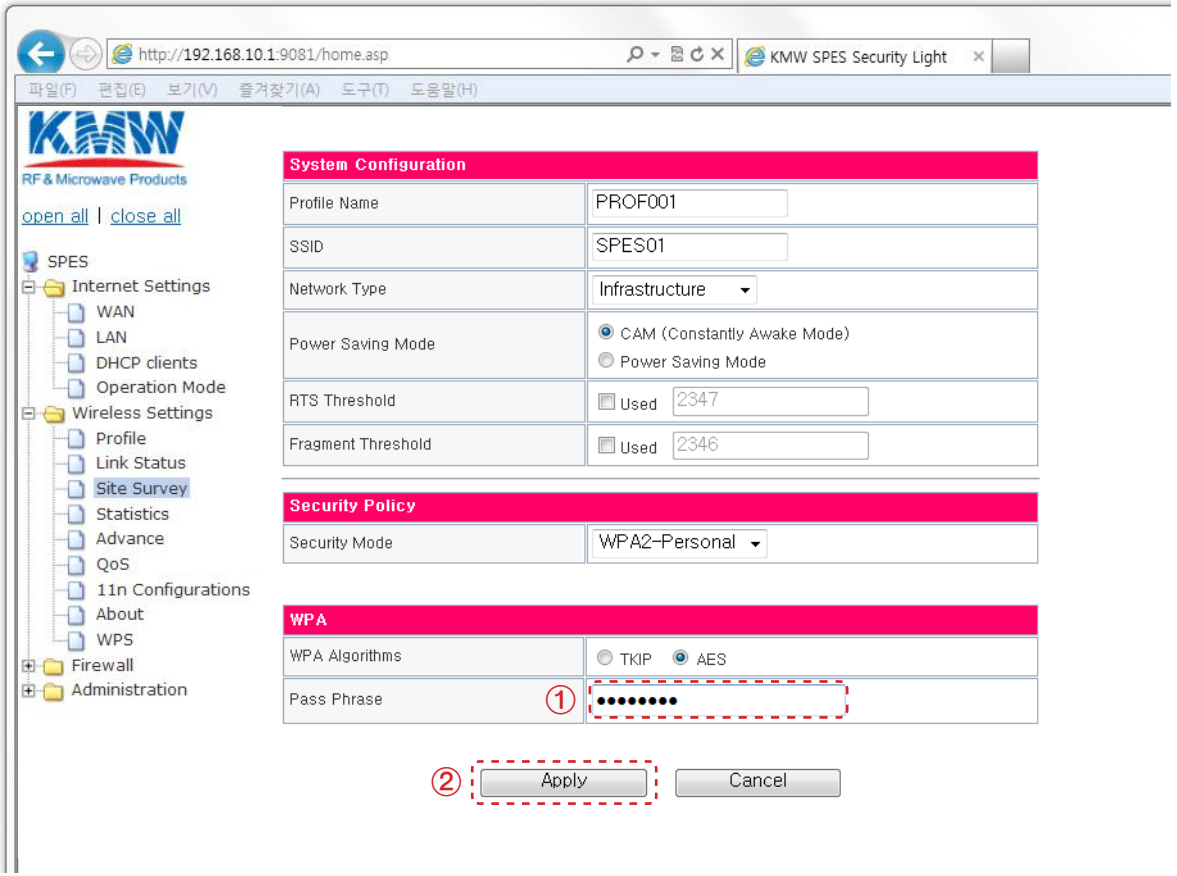
▶ The Master SPES must be ON.
For Master:2ea/Slave:2ea,
select the SSID of the
port-forwarded Master SPES.



AP setup

Step 10.

Enter 12345678 for the Pass Phrase and click Apply.



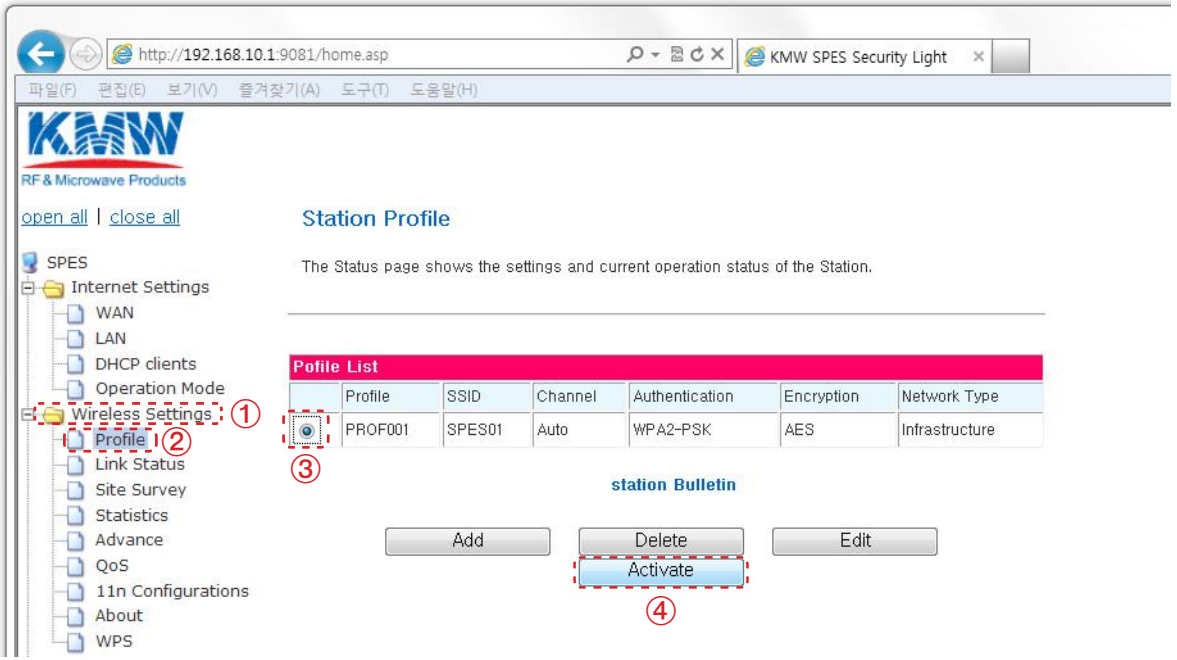
Slave setup

AP setup

▶ The Master SPES must be ON and each slave SPES must be activated.

Step 11.

On the left menu, click Wireless Settings - Profile.
Select the corresponding Master checkbox on the profile list and click Activate.

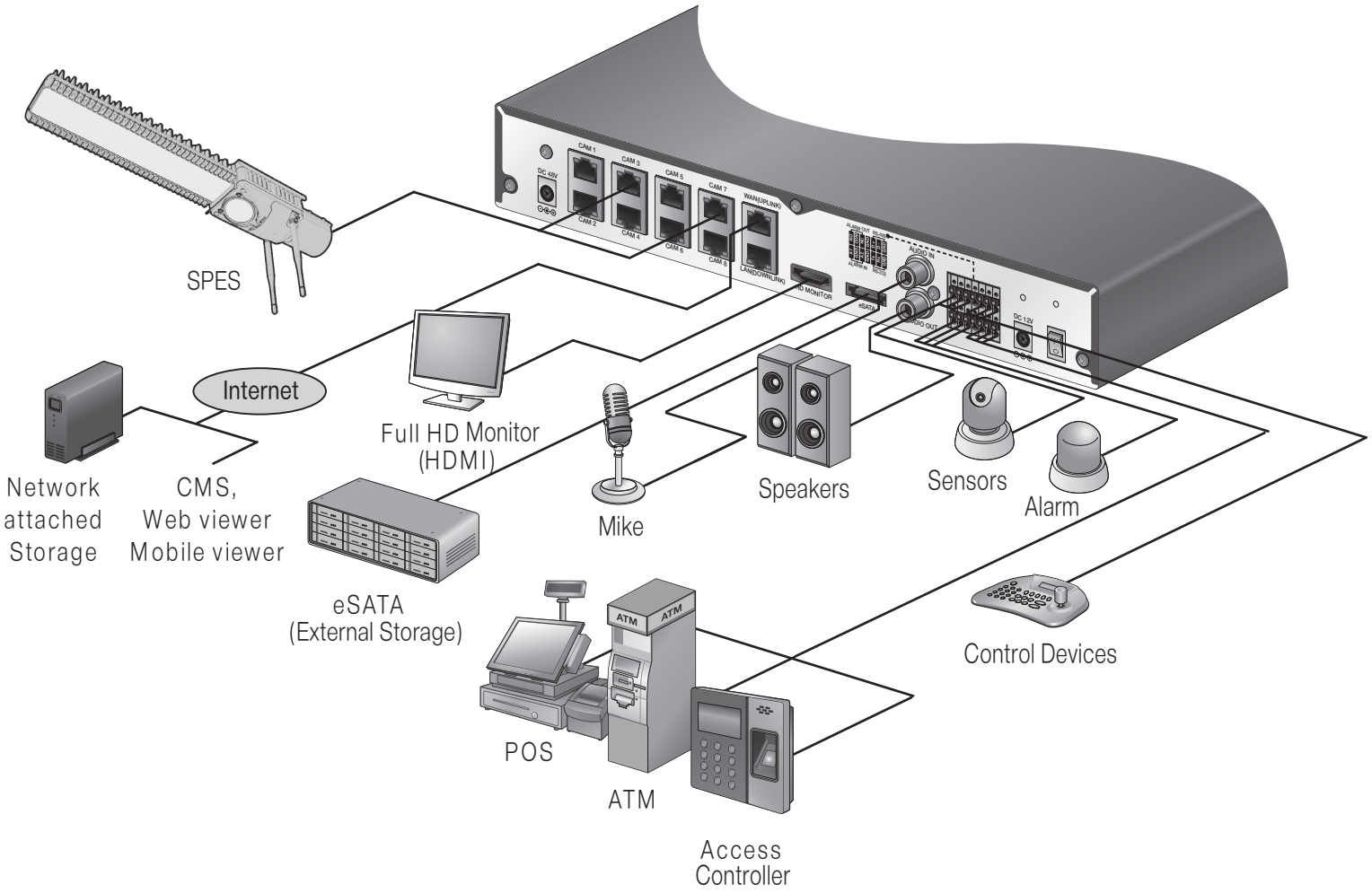


If activated, a green indicator appears on the right side of the checkbox.

SPES slave setup is successful. Follow the NVR setup instructions on the next page.

NVR setup

Network setup



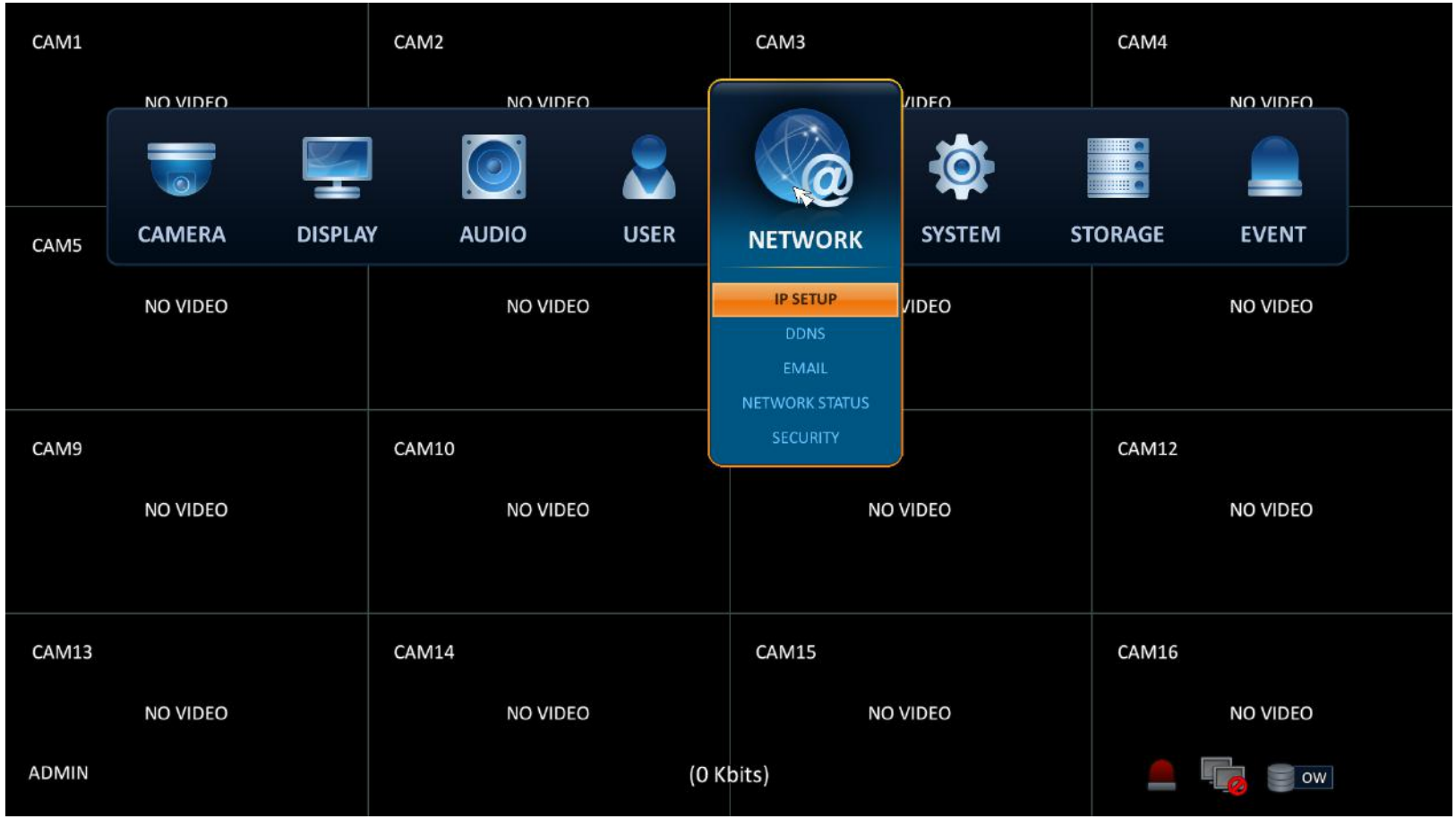
Network setup

Step 1.

NVR : Menu - System Setup.

Step 2.

Network -IP Setup



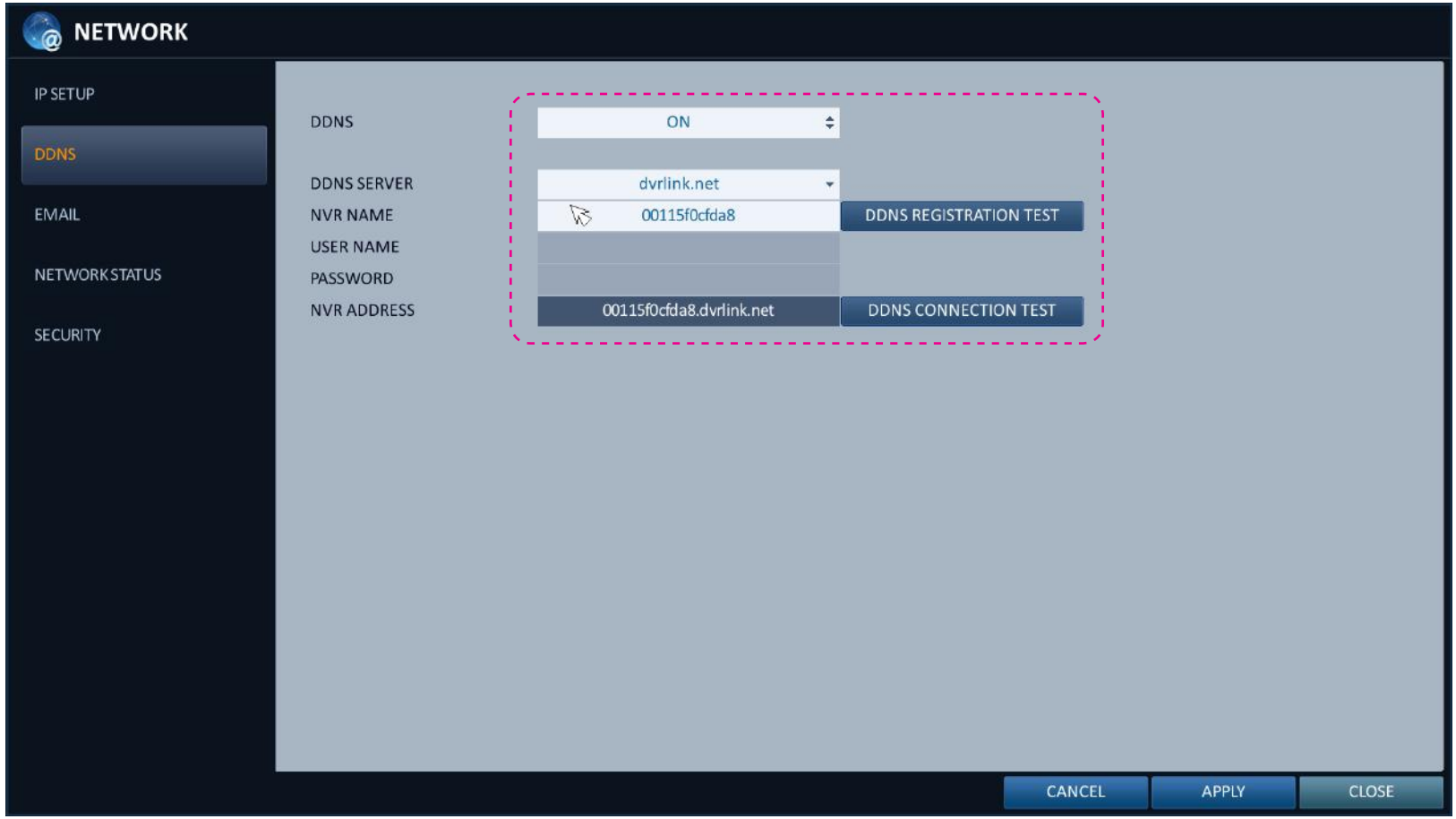
Step 3.

Menu-System Setup-Network -IP Setup

▶ DHCP or Static IP configuration.
Select Static IP if one is available to connect to the external network.

Step 4.

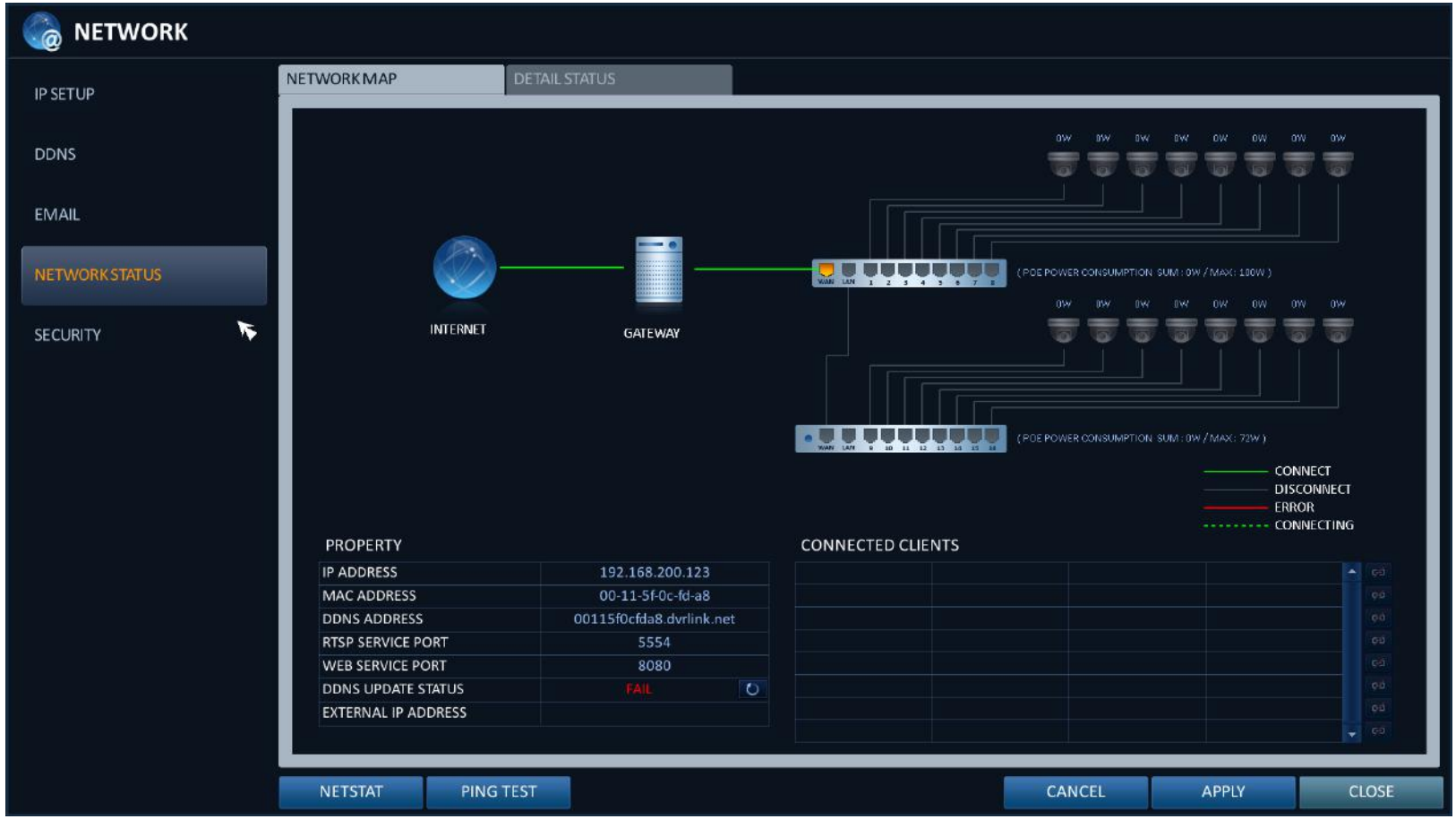
Menu - System Setup - Network - DDNS.



Step 5.

Menu - System Setup - Network - Network Status.

▶ With the Network Map, the NVR Network Connection can be checked.

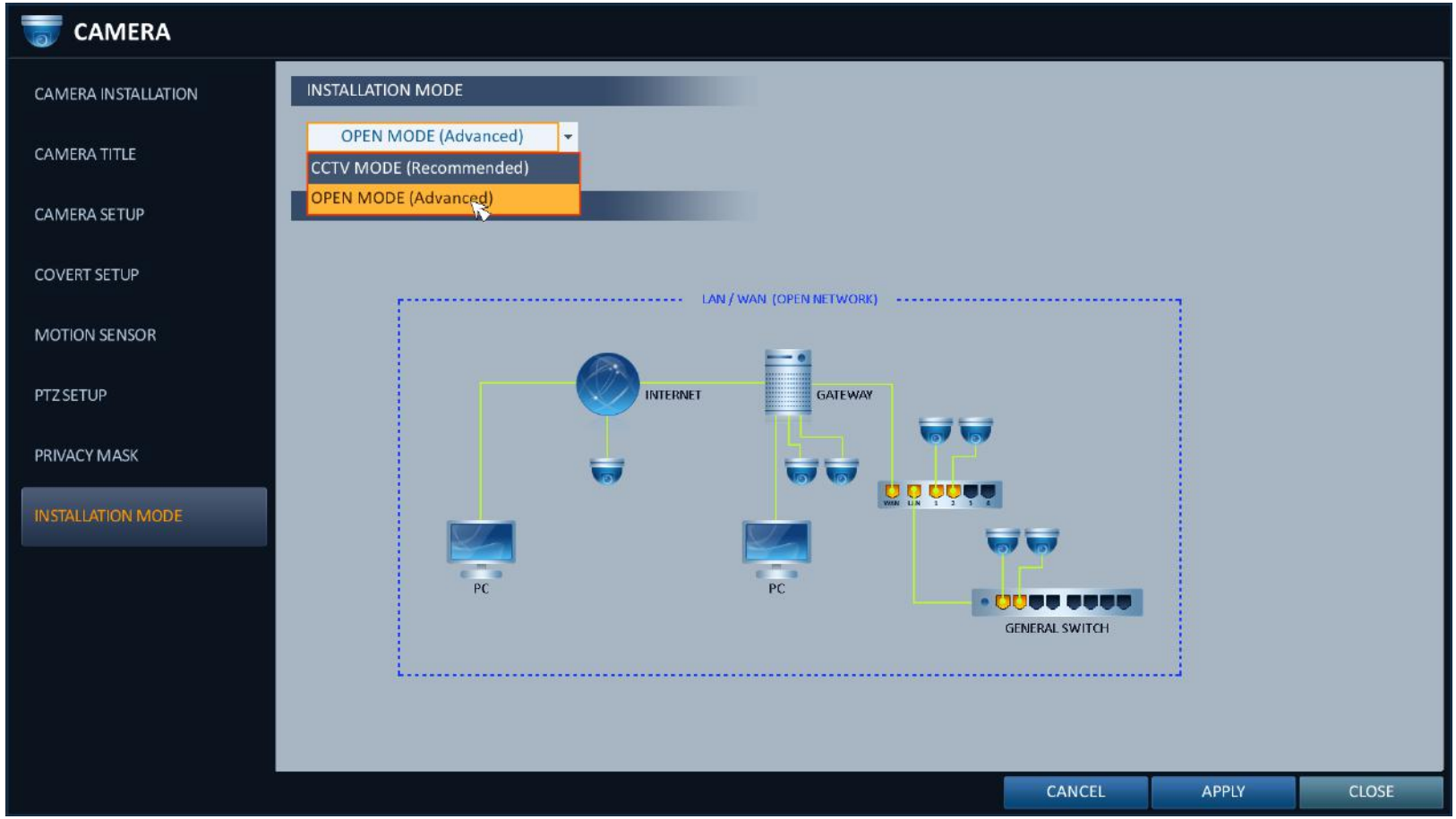


Step 1.

Camera - Installation Mode.

Step 2.

Installation Mode - OPEN Mode.



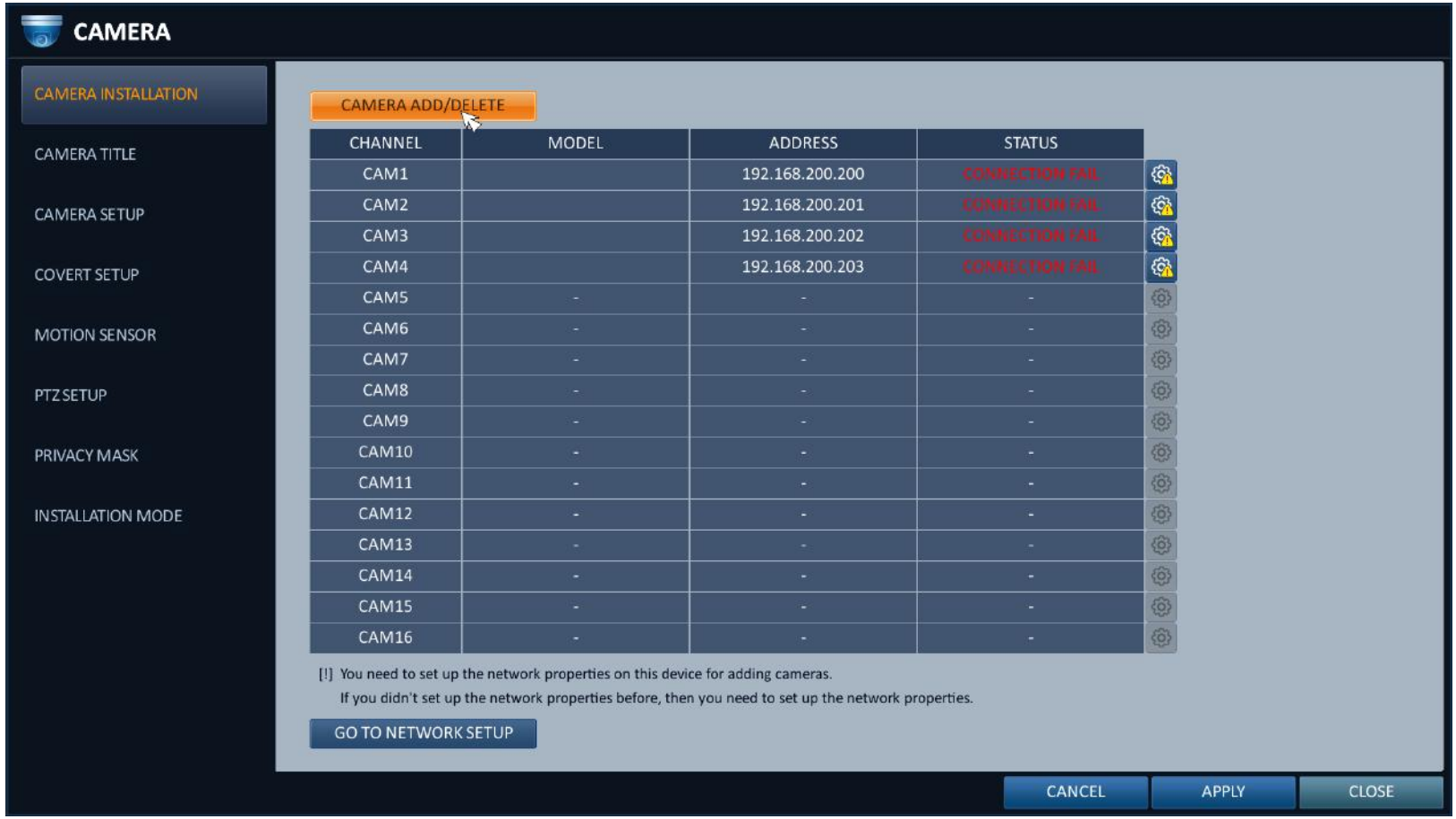
Step 3.

Camera - Camera Installation.

Step 4.

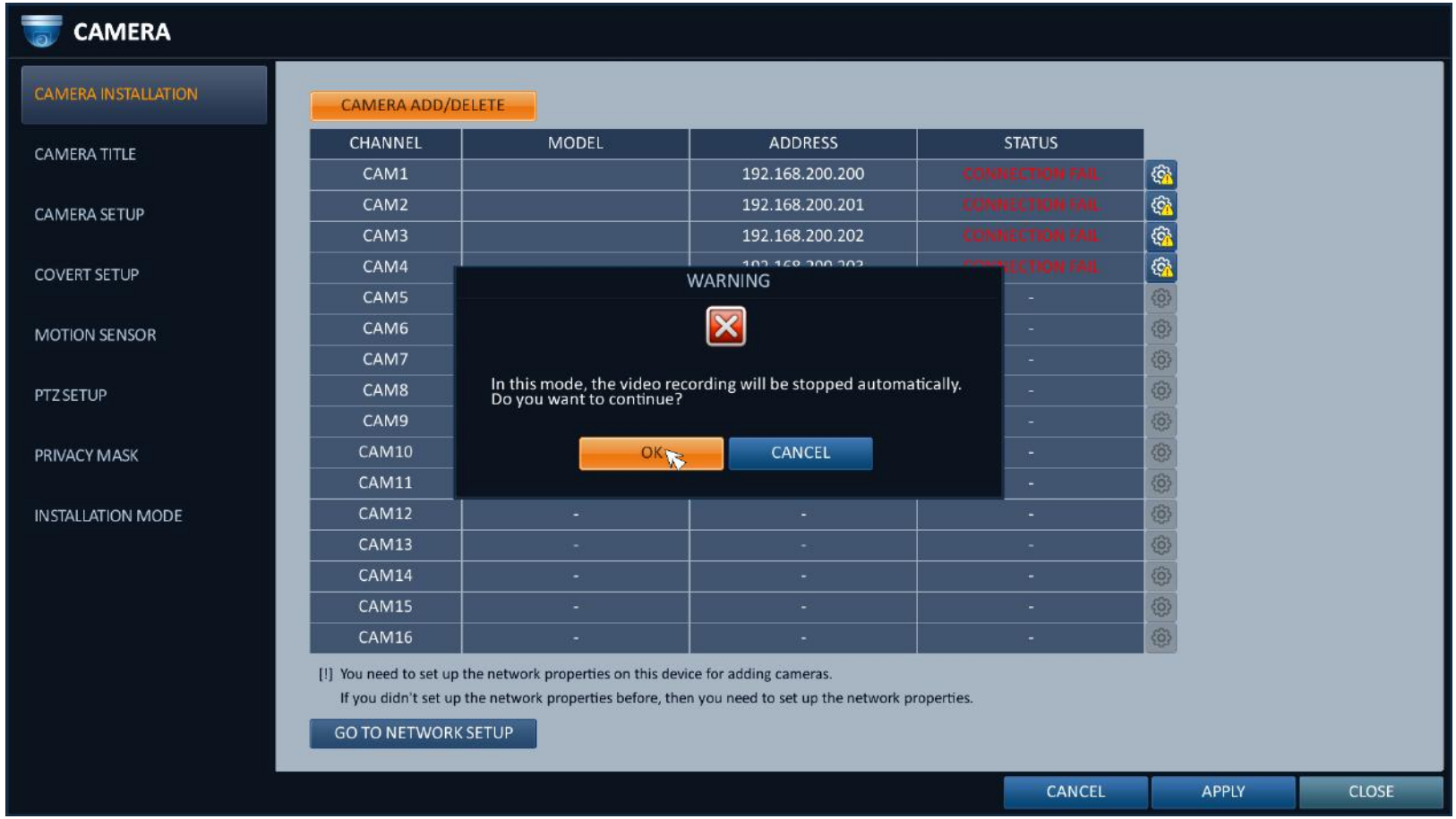
Camera-Camera Installation.

▶ Click the CAMERA ADD/DELETE button.



Step 5.

Camera-Camera Installation.
▶ Click OK in the pop-up window.



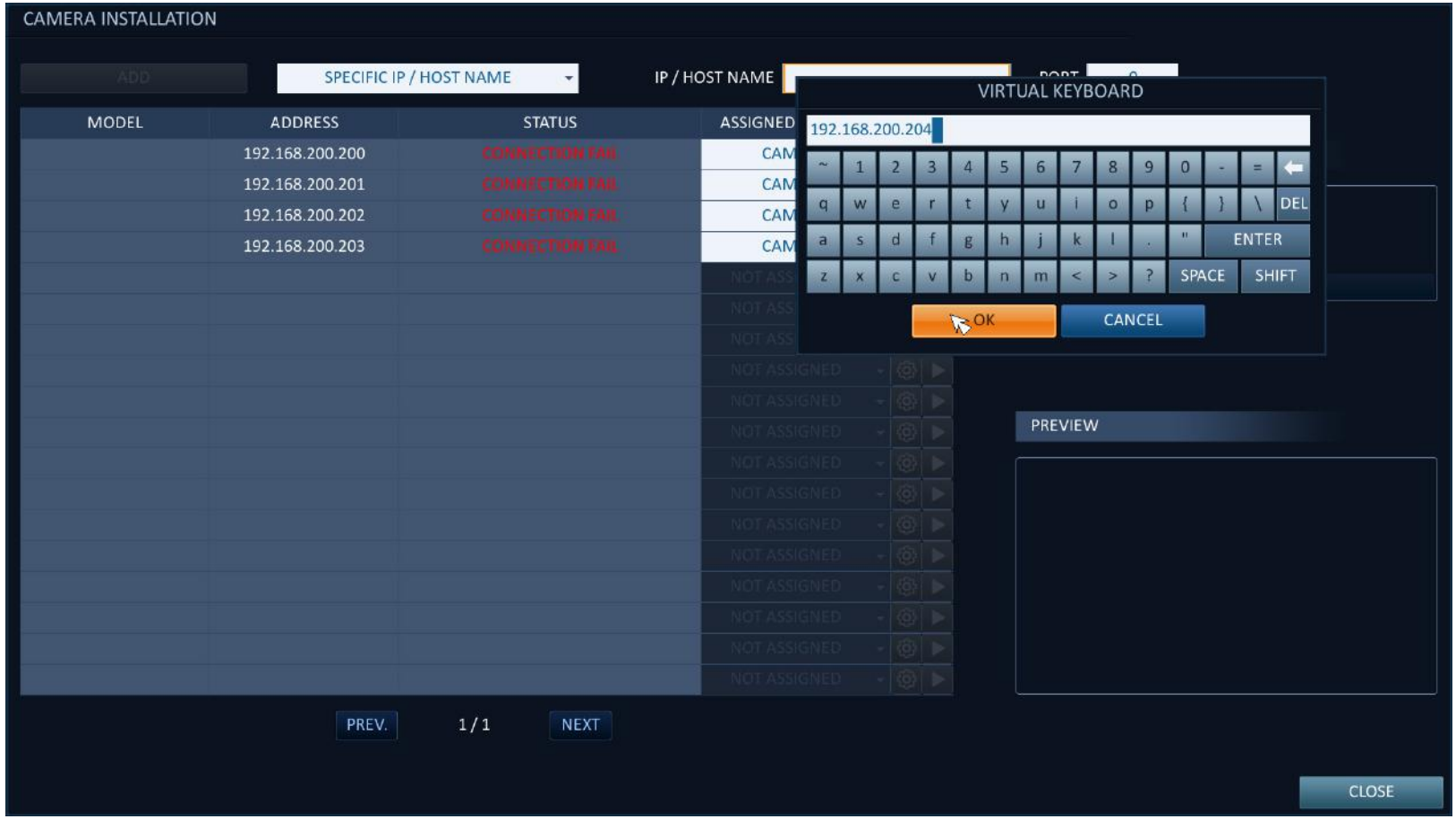
Step 6.

Camera-Camera Installation.
▶ Click SPECIFIC IP/HOST NAME

Step 7.

Camera-Camera Installation.

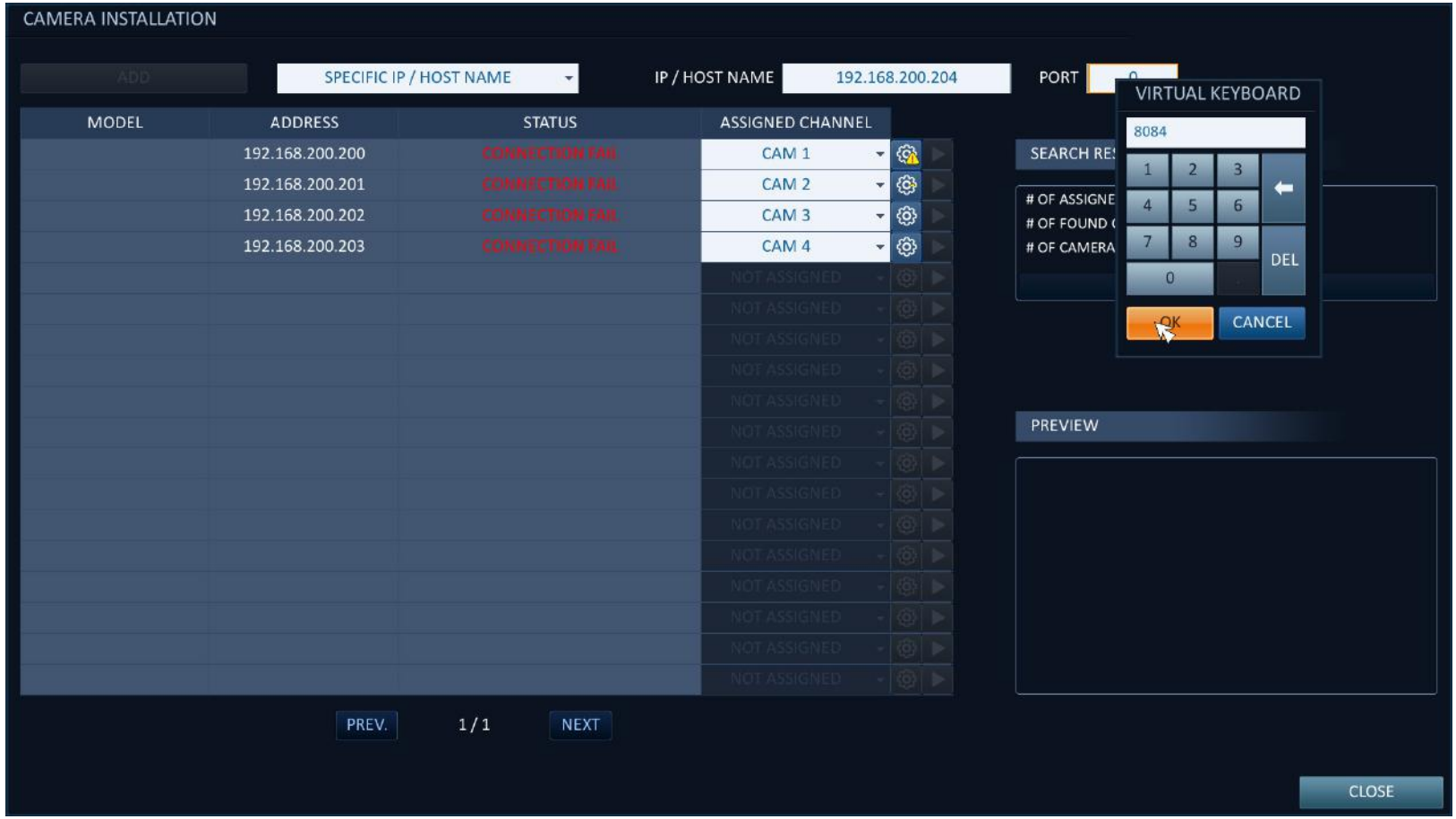
▶ Double click IP/HOST NAME and enter the camera IP.



Step 8.

Camera-Camera Installation.

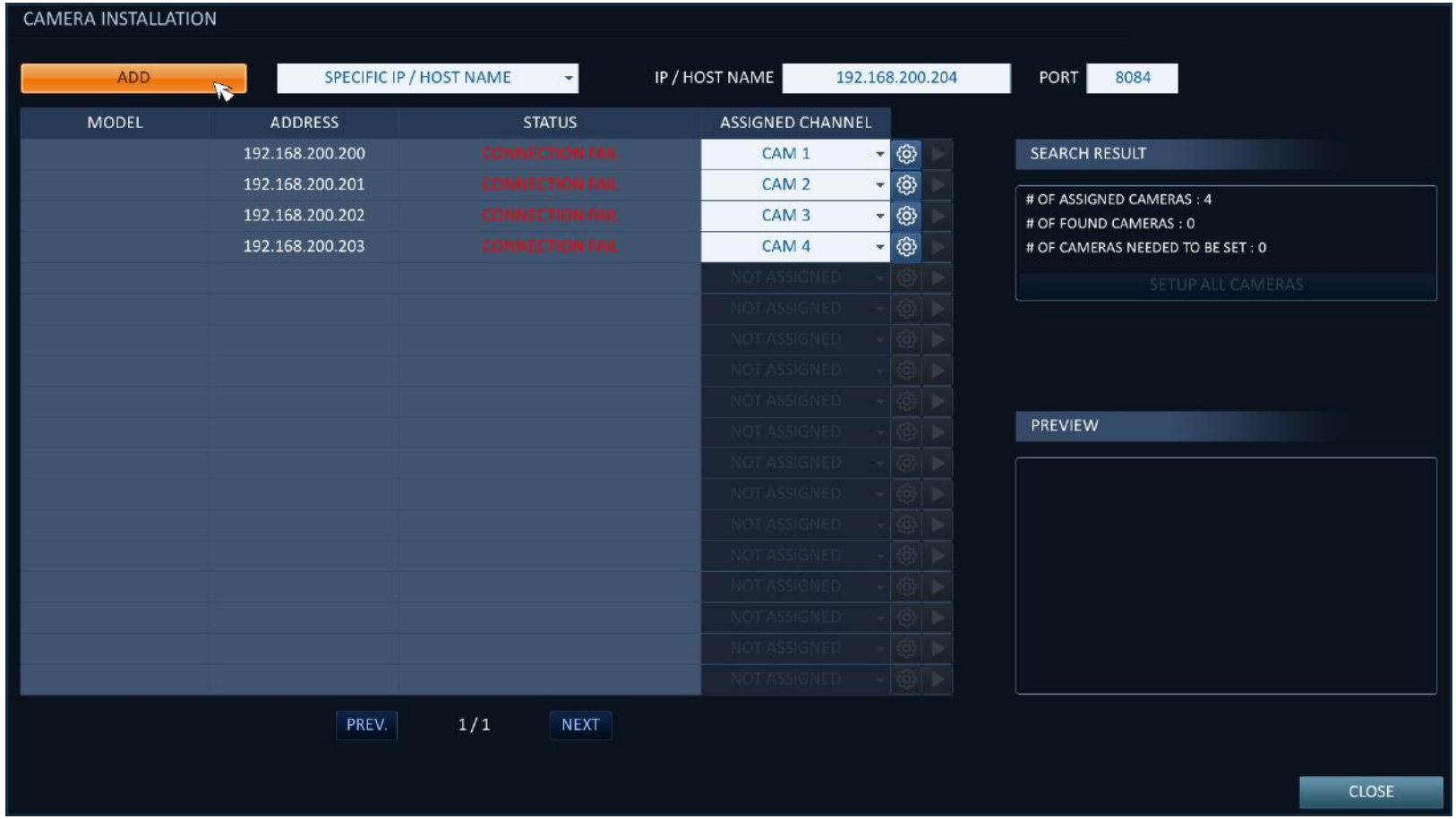
▶ Double click PORT and enter the Camera Port.



Step 9.

Camera-Camera Installation.

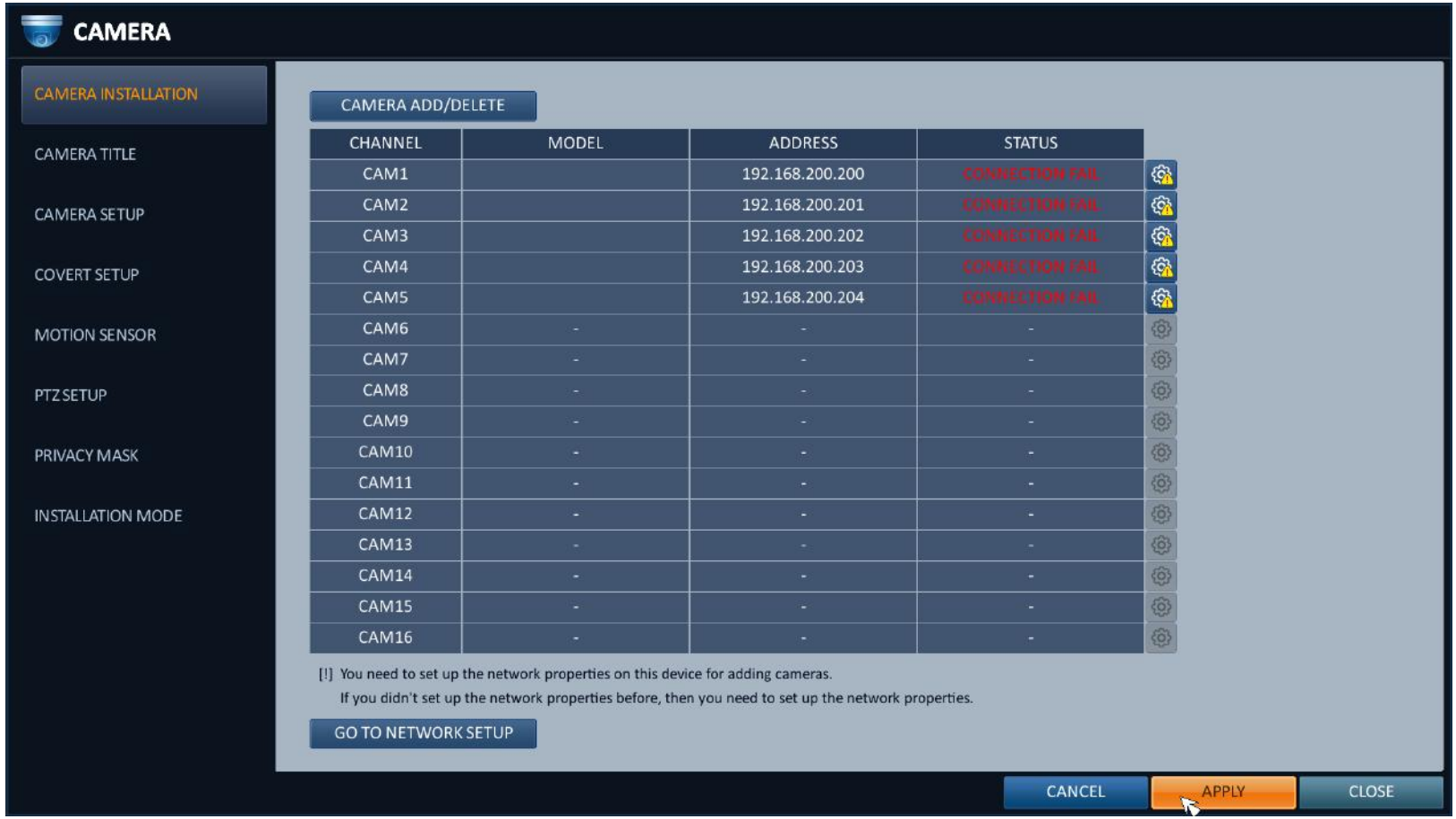
▶ Click the activated ADD button and then click the CLOSE button.



Step 10.

Camera-Camera Installation.

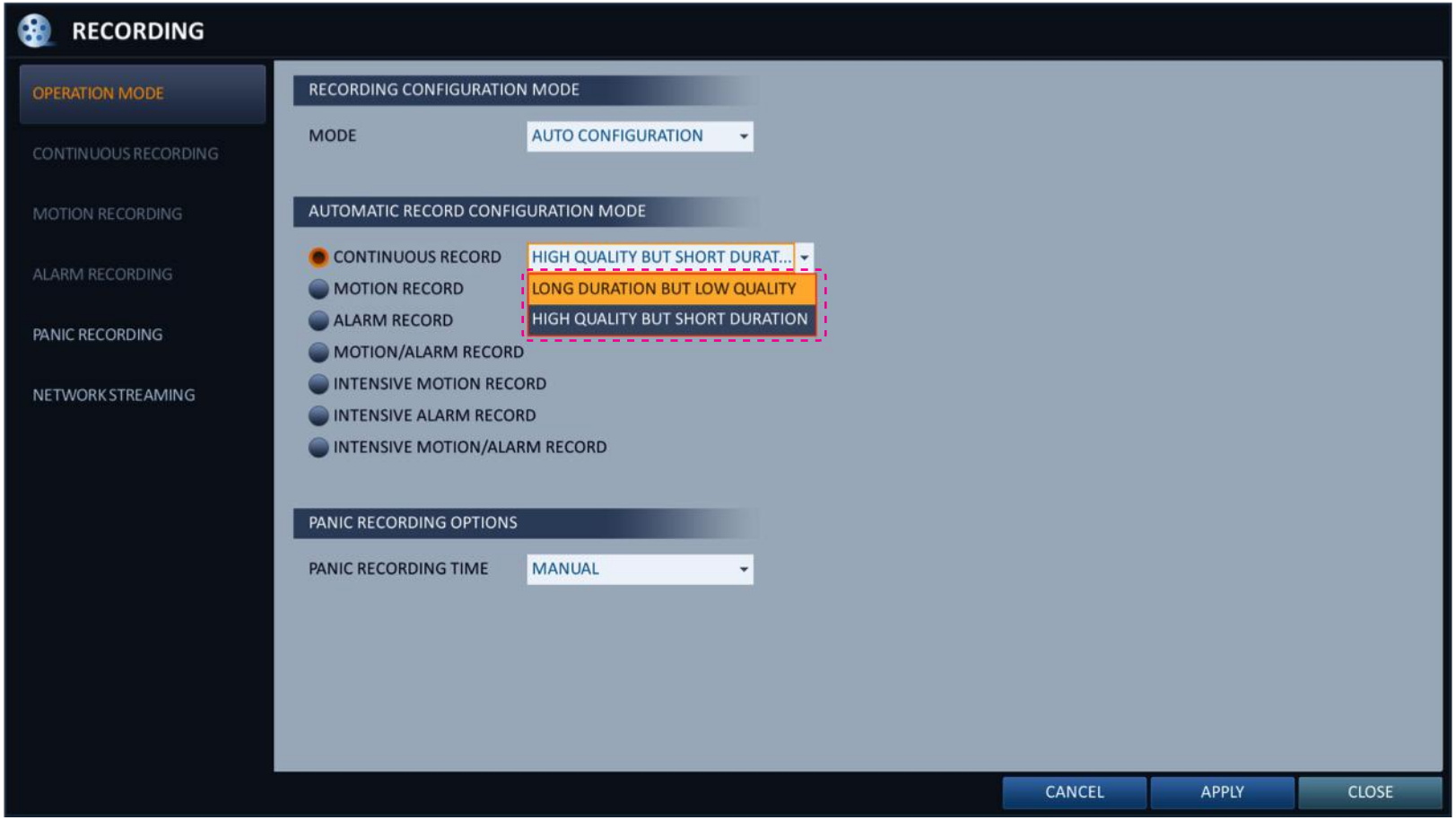
▶ Click the activated APPLY button and then click the CLOSE button.



Record setup

Step 1.

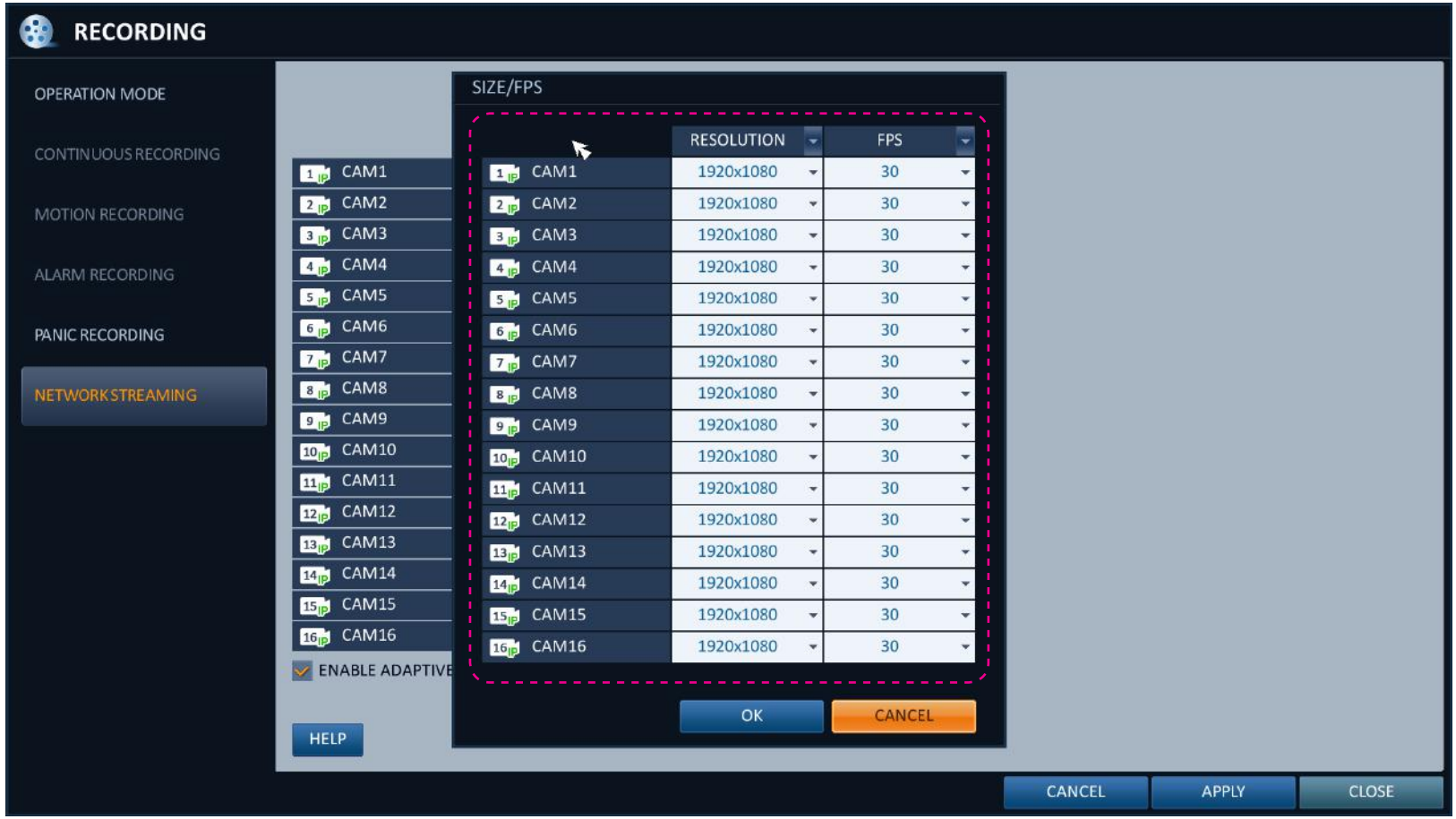
Menu - Record Setup - Operation Mode (Auto Configuration).
▶ Long Duration But Low Quality or High Quality But Short Duration selection.



Step 2.

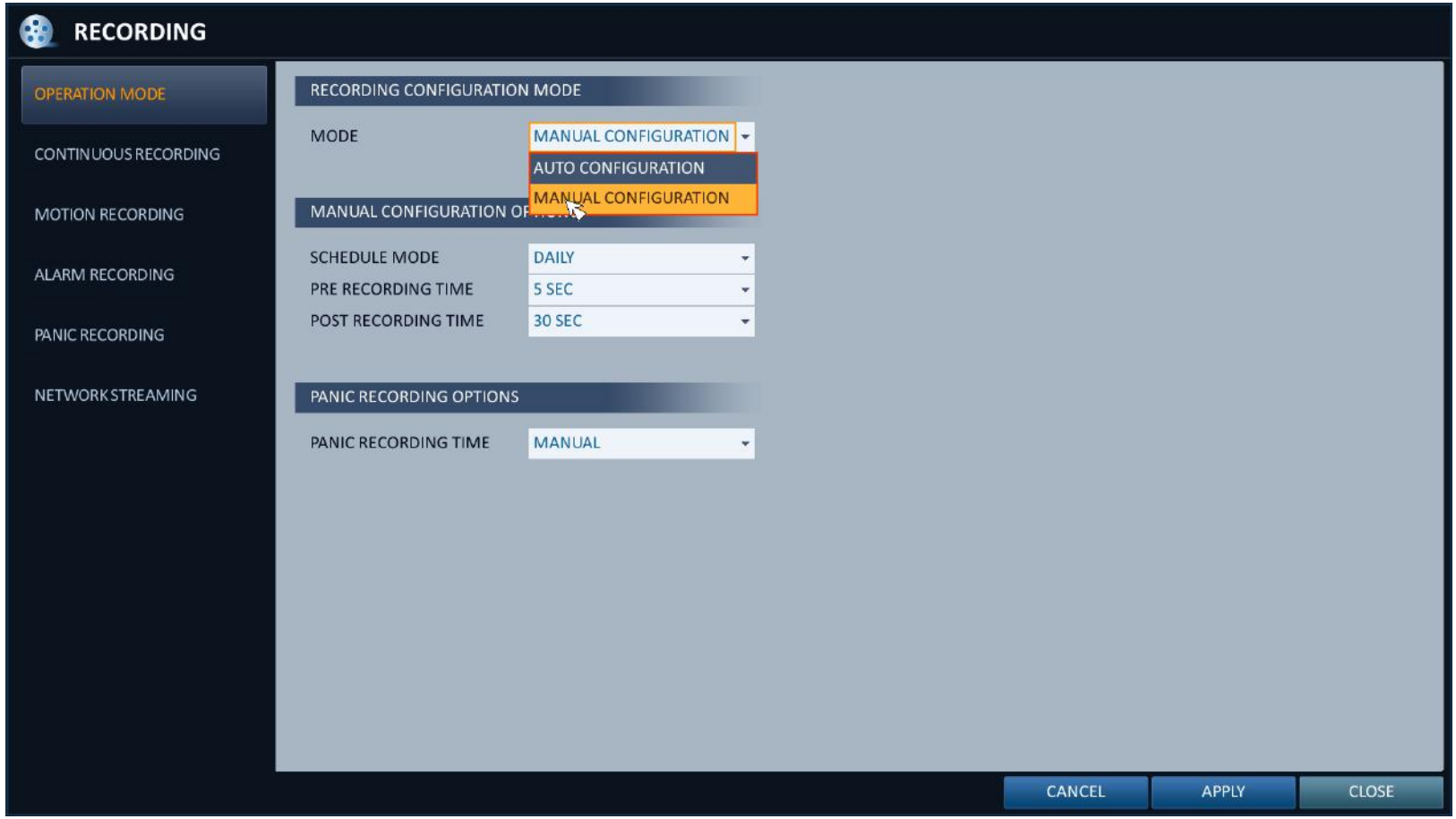
Menu - Record Setup - Network Streaming.

▶ Adjust the resolution and FPS taking into account the network and environment of where the NVR is installed.



Step 3.

Menu - Record Setup - Operation Mode (Manual Configuration).



Step 4.

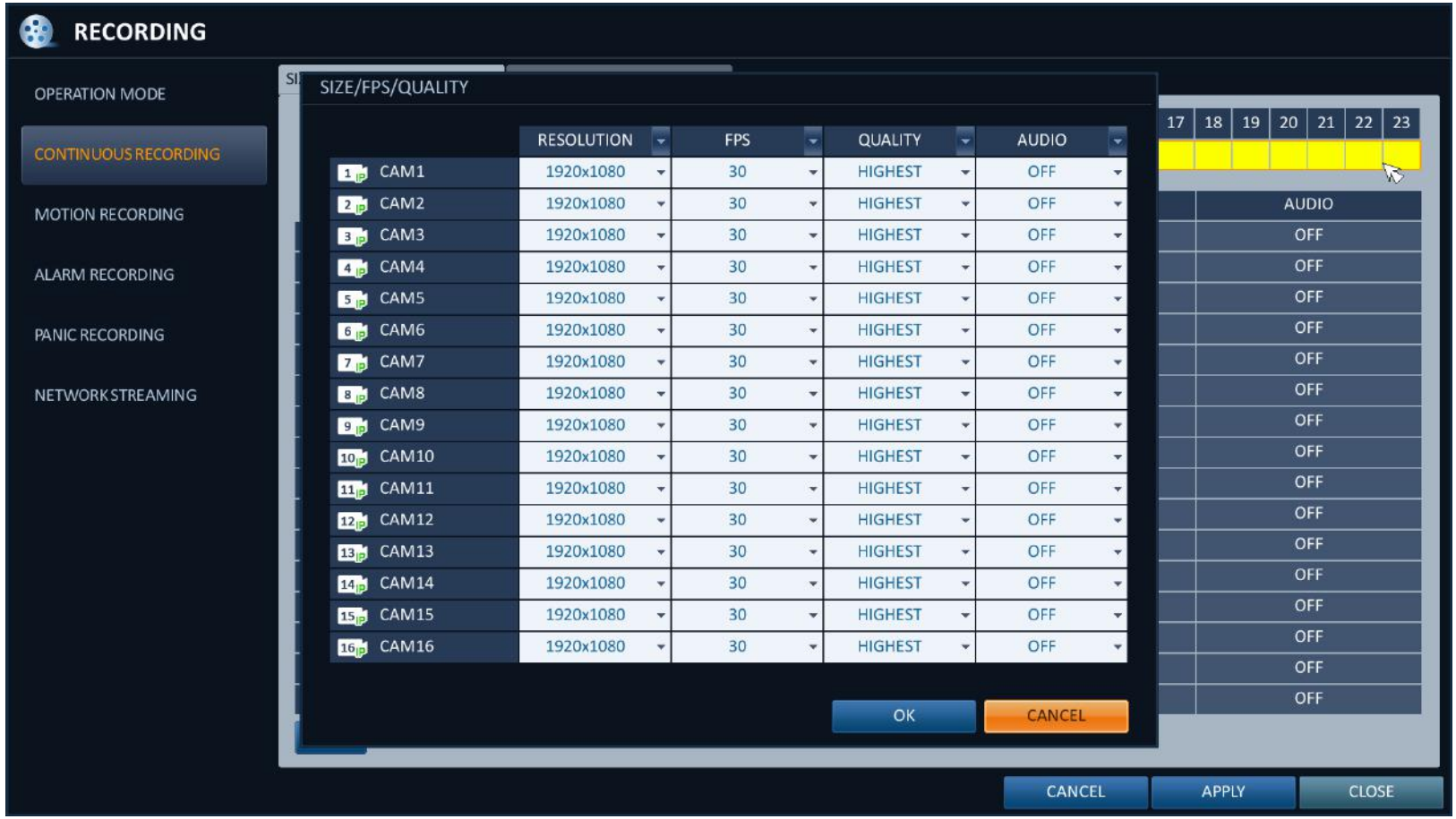
Menu - Record Setup - Continuous Recording - Size / FPS / Quality.

▶ After configuring the start and end time, the Size, FPS, and Quality for all cameras can be configured.

Record setup

Step 5.

Menu - Record Setup - Continuous Recording - Size / FPS / Quality.

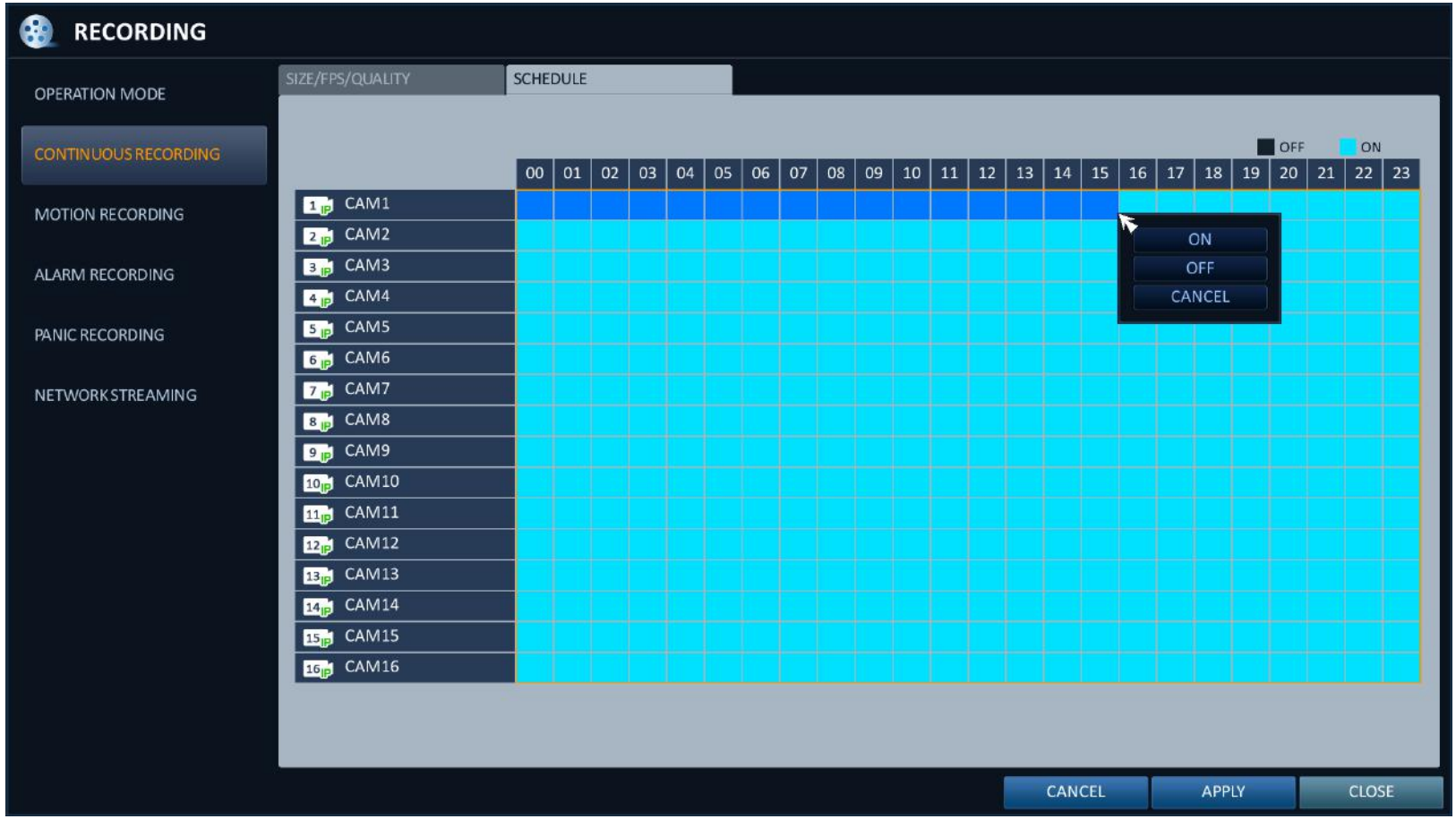


Record setup

Step 6.

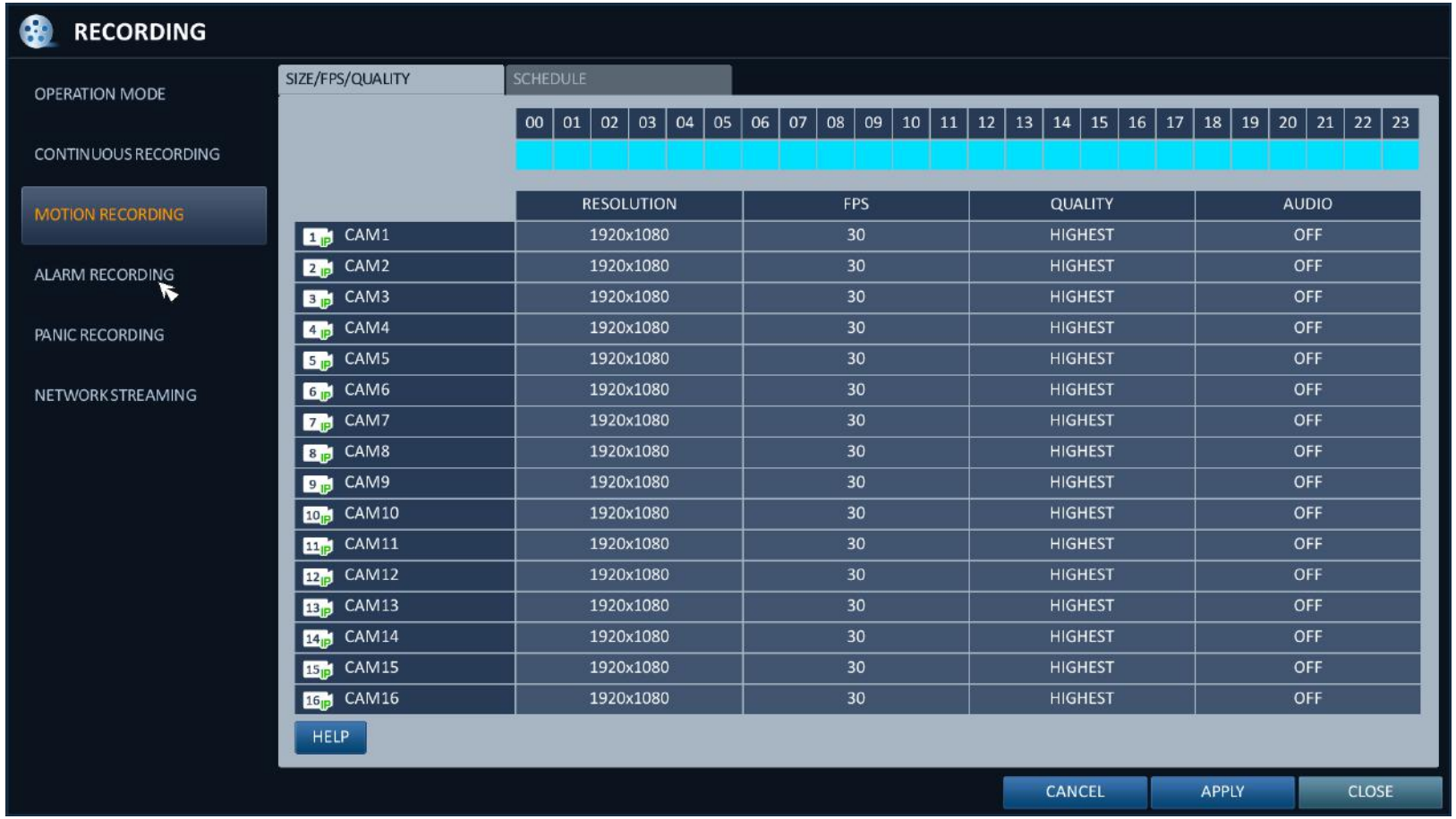
Menu - Record Setup - Continuous Recording - Schedule.

▶ The continuous recording time for each camera can be configured.



Step 7.

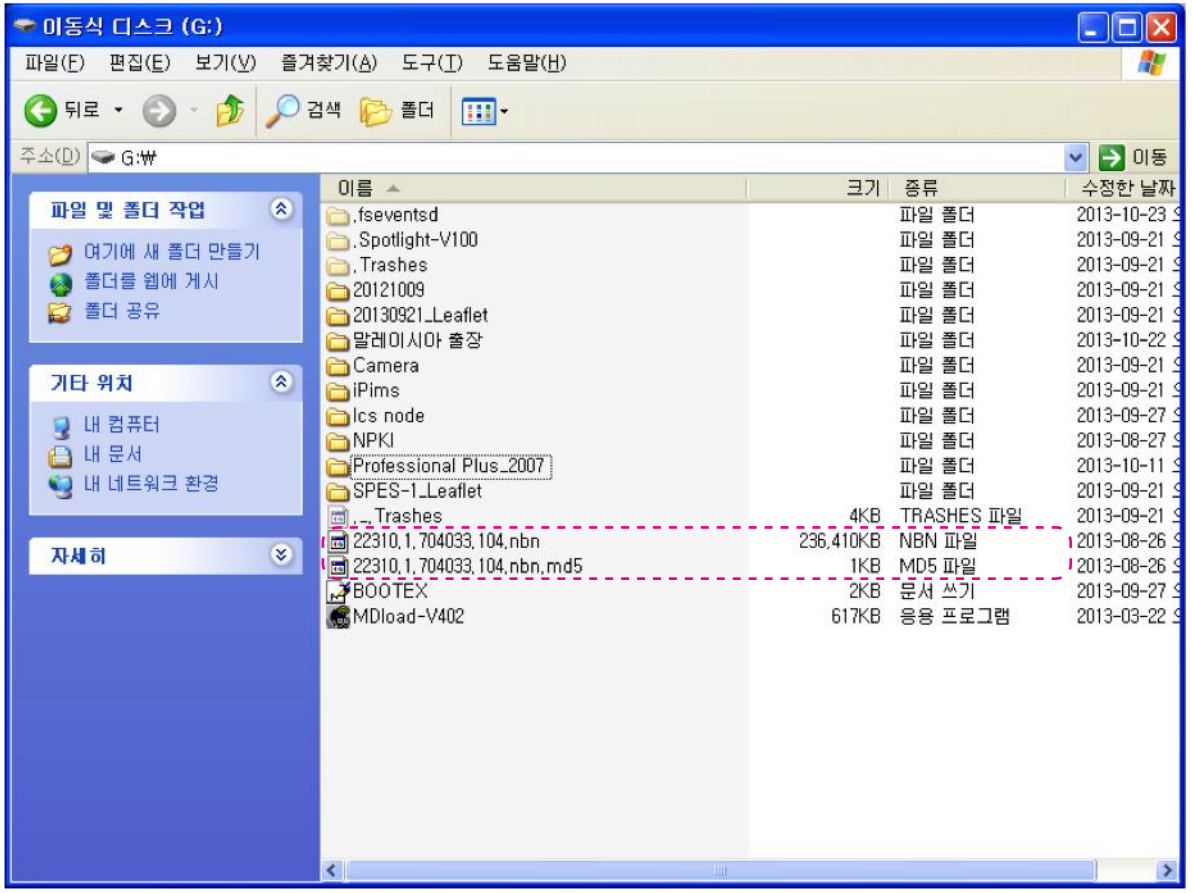
Menu - Record Setup - Continuous Recording - Schedule.
▶ As with continuous recording, settings for all or each camera can be configured.



NVR Firmware Update

Step 1.

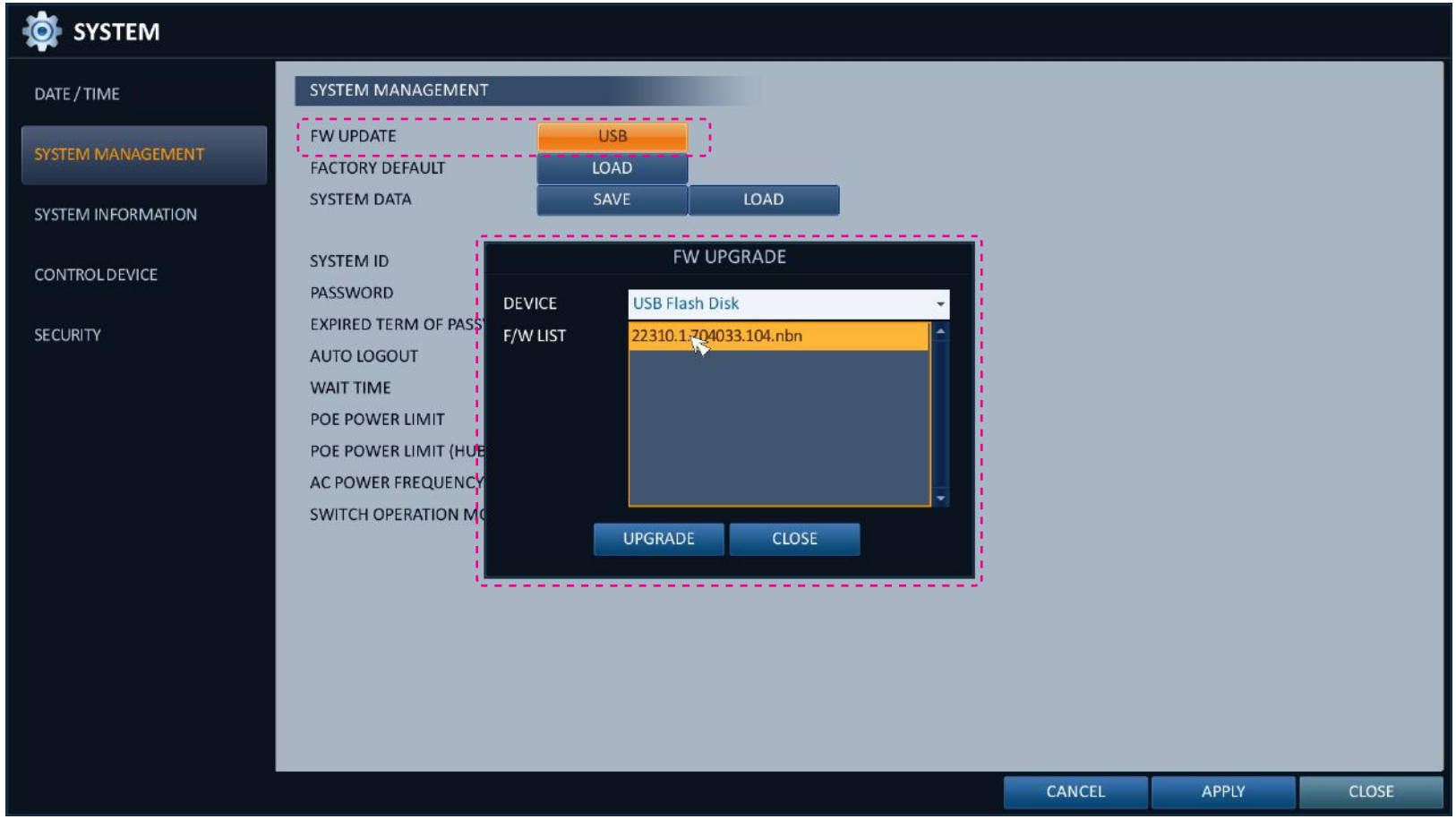
Save the update F/W to the root directory of a removable storage device.



NVR Firmware Update

Step 2.

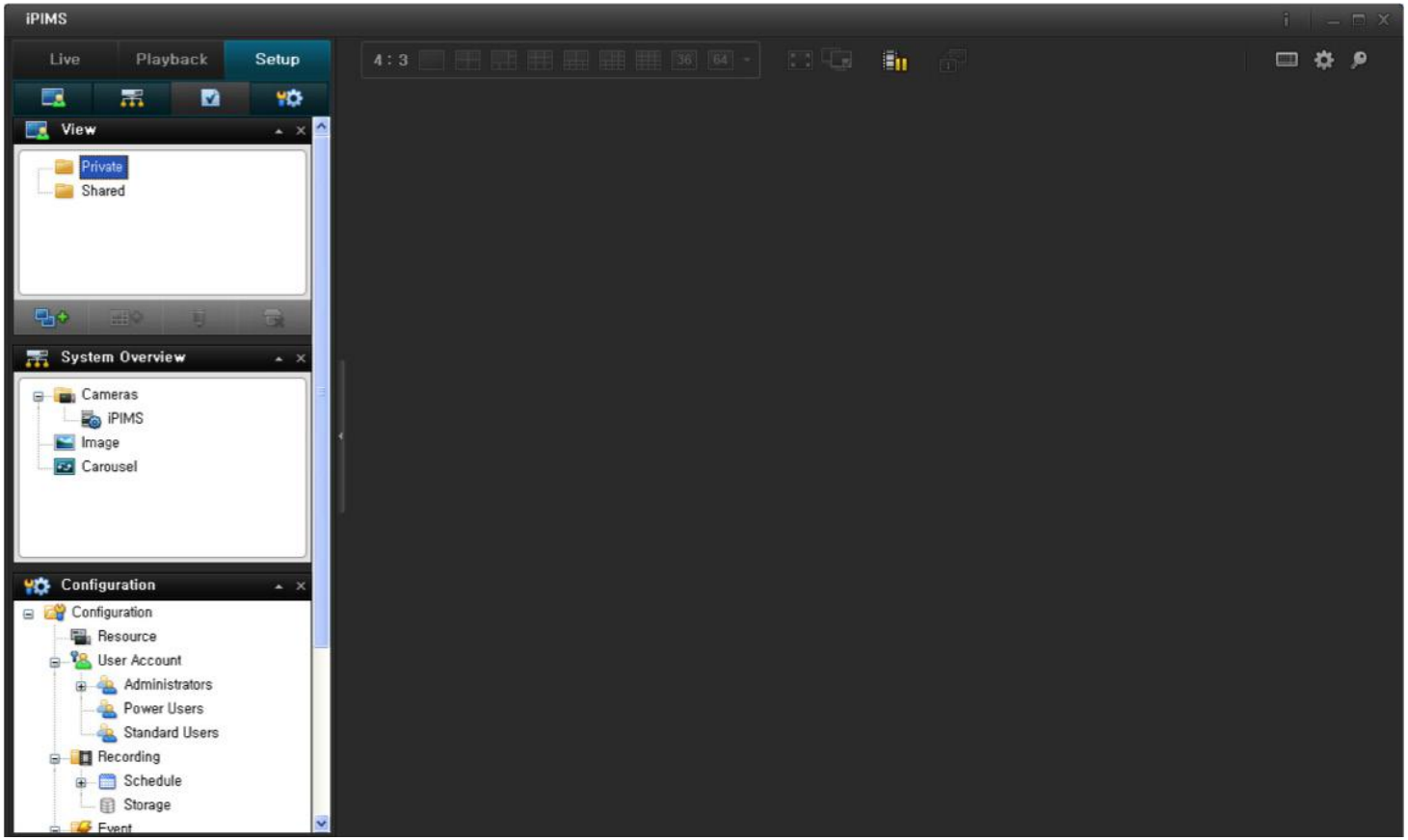
Menu - System Setup - System - System Management - FW Update
▶ FW UPDATE - USB click, select FW - click UPGRADE.



IPIMS setup

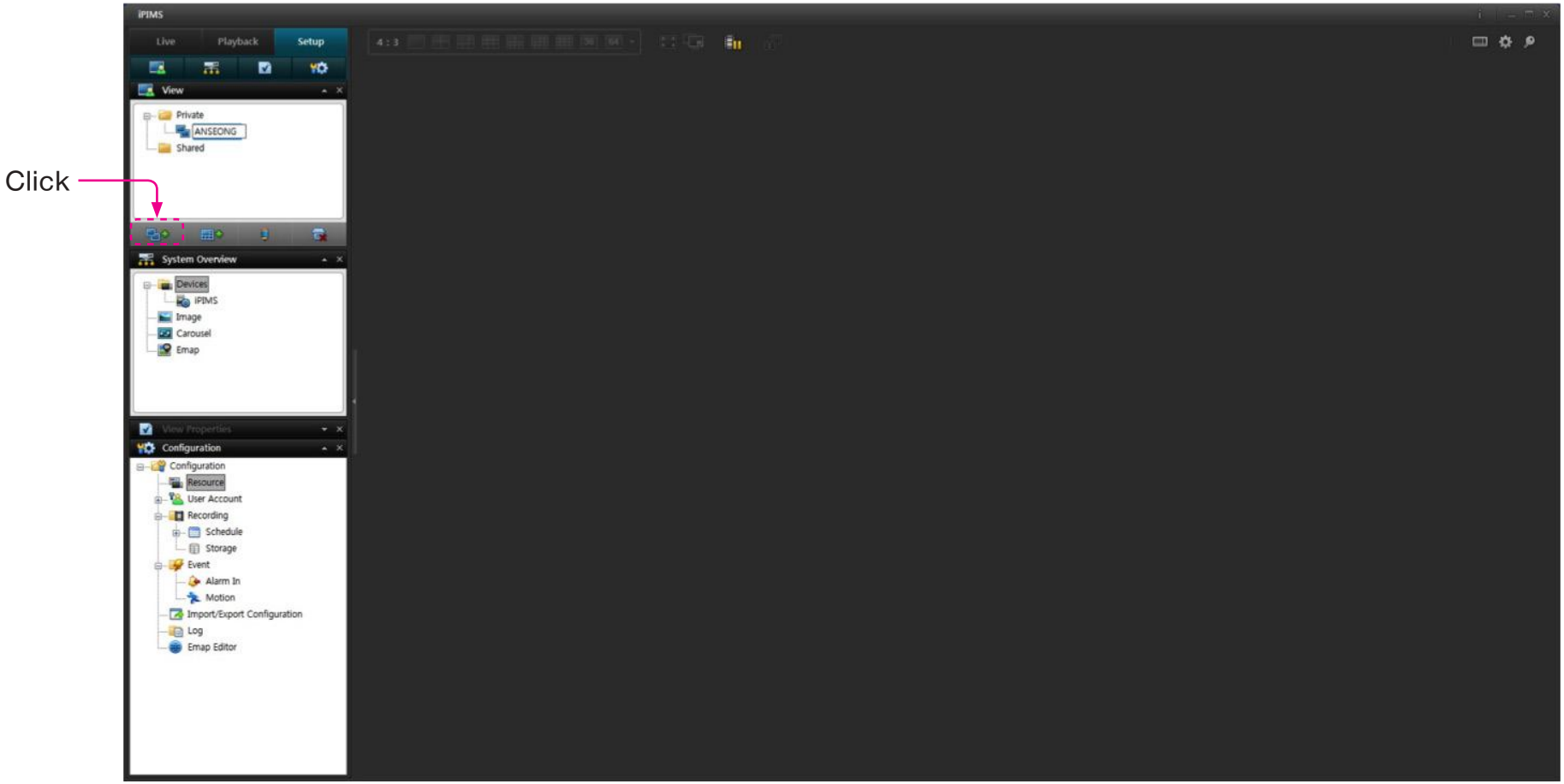
Step 1.

Execute IPIMS Tool — Enter ID: ADMIN (Capital) and PW: 1234, and check the display.



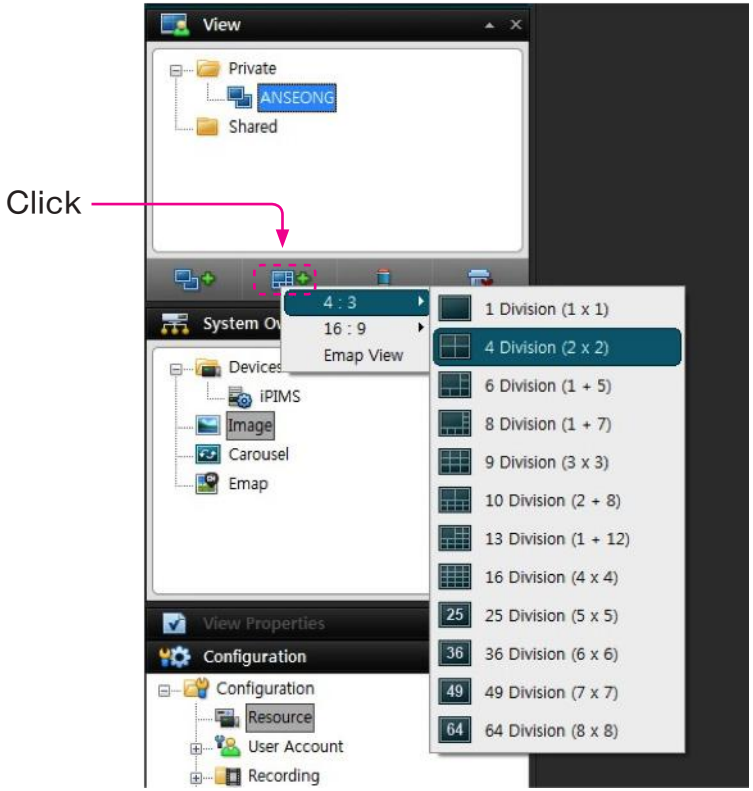
Step 2.

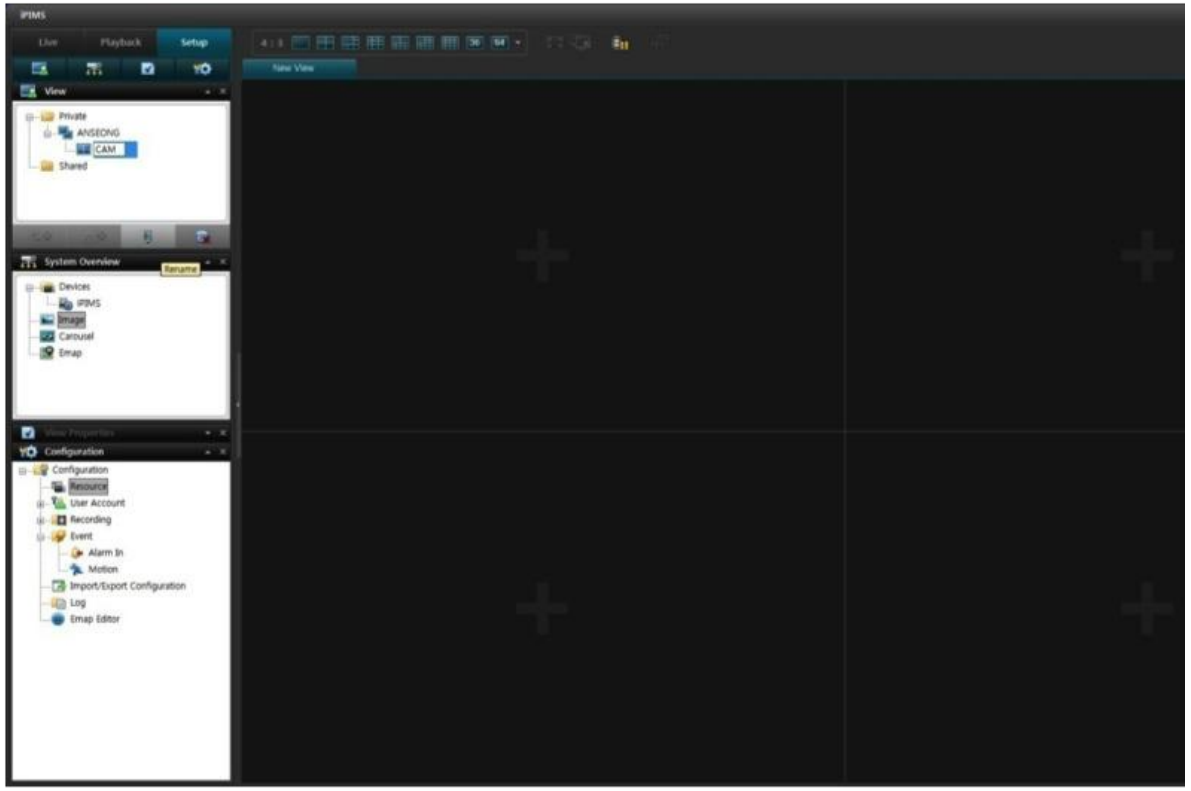
In the Login-Setup-Create Group menu, create a group.



Step 3.

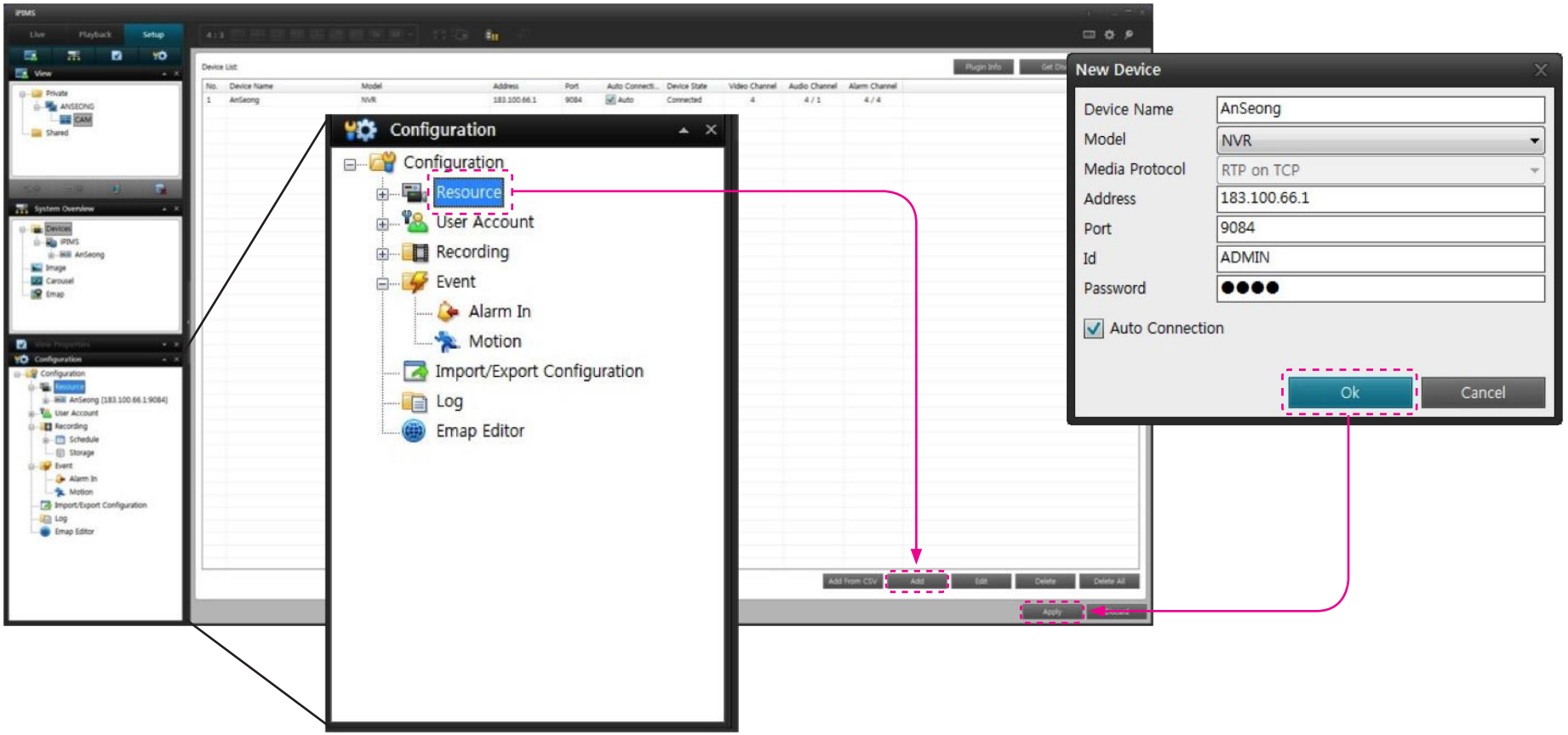
Setup — Create View menu, select Mode to create View.





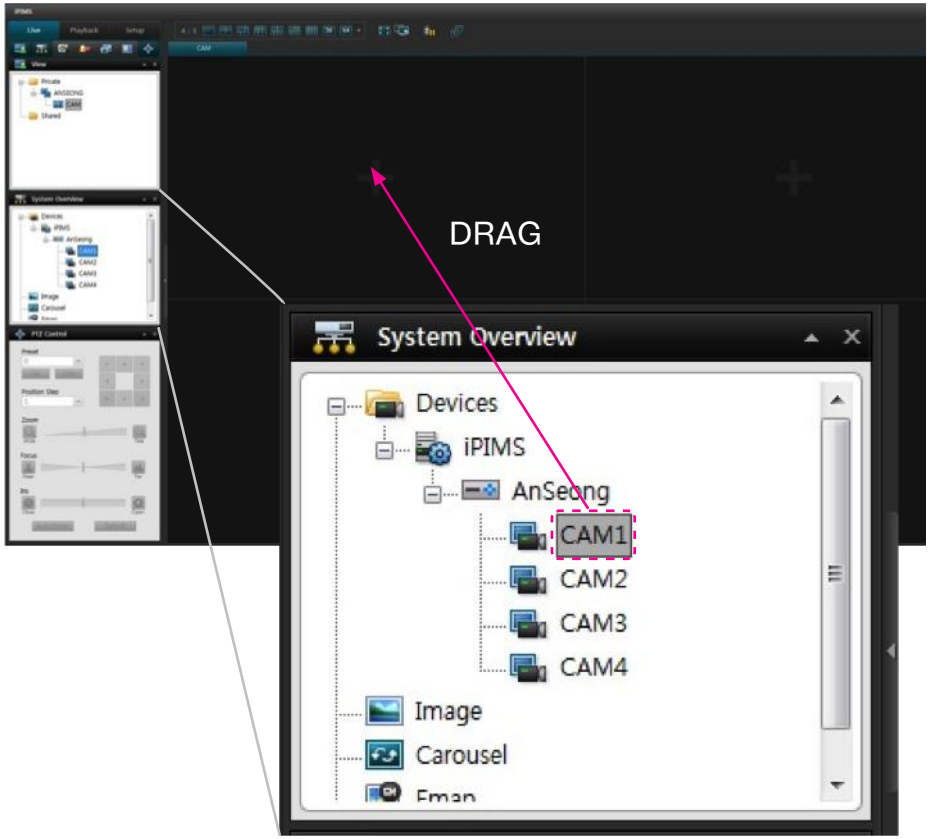
Step 4.

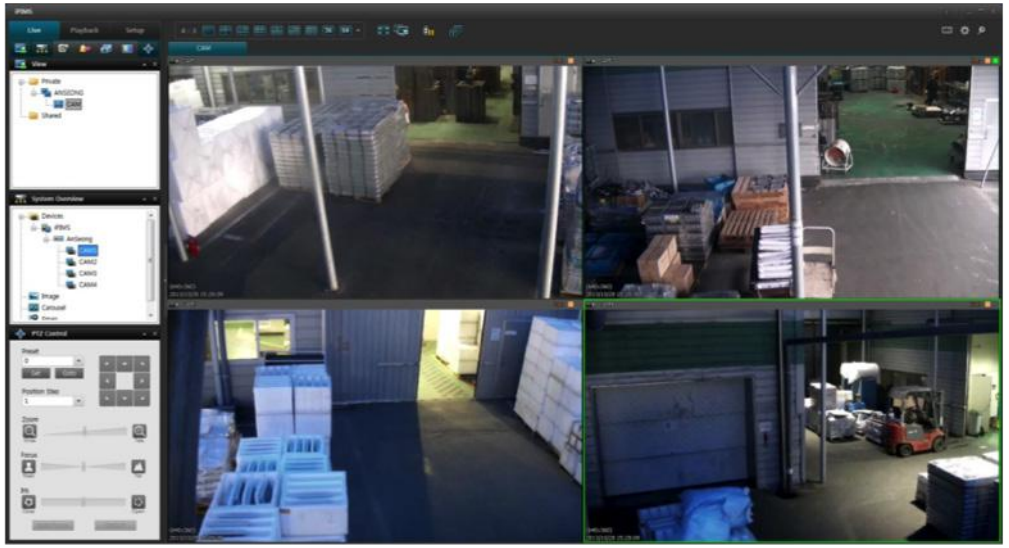
Select Resource-add. Enter device information, ID: ADMIN and PW: 1234; and click OK-Apply.



Step 5.

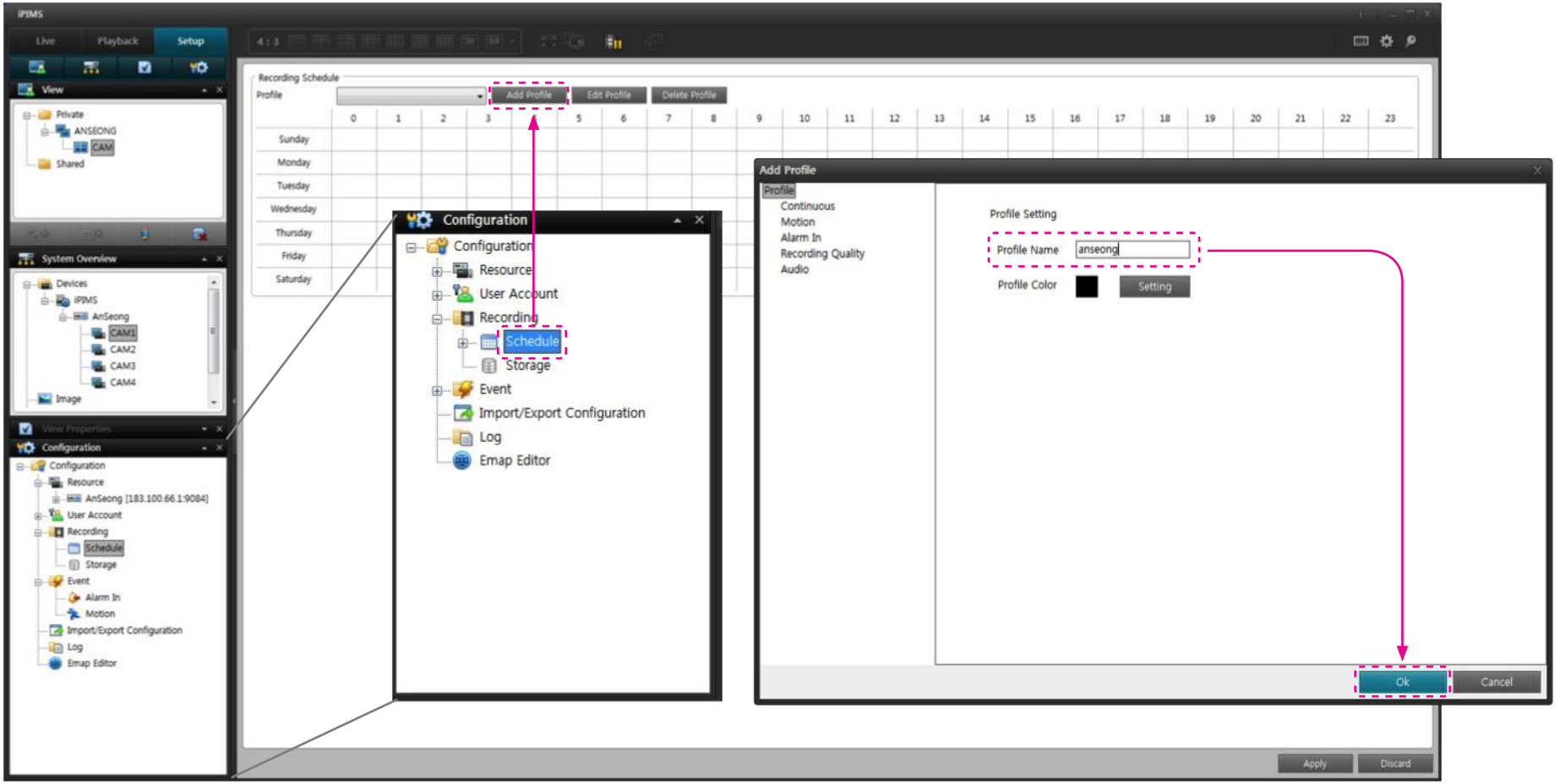
On the “LIVE” bar, drag the menu created in the System Overview window to the right to check the image.





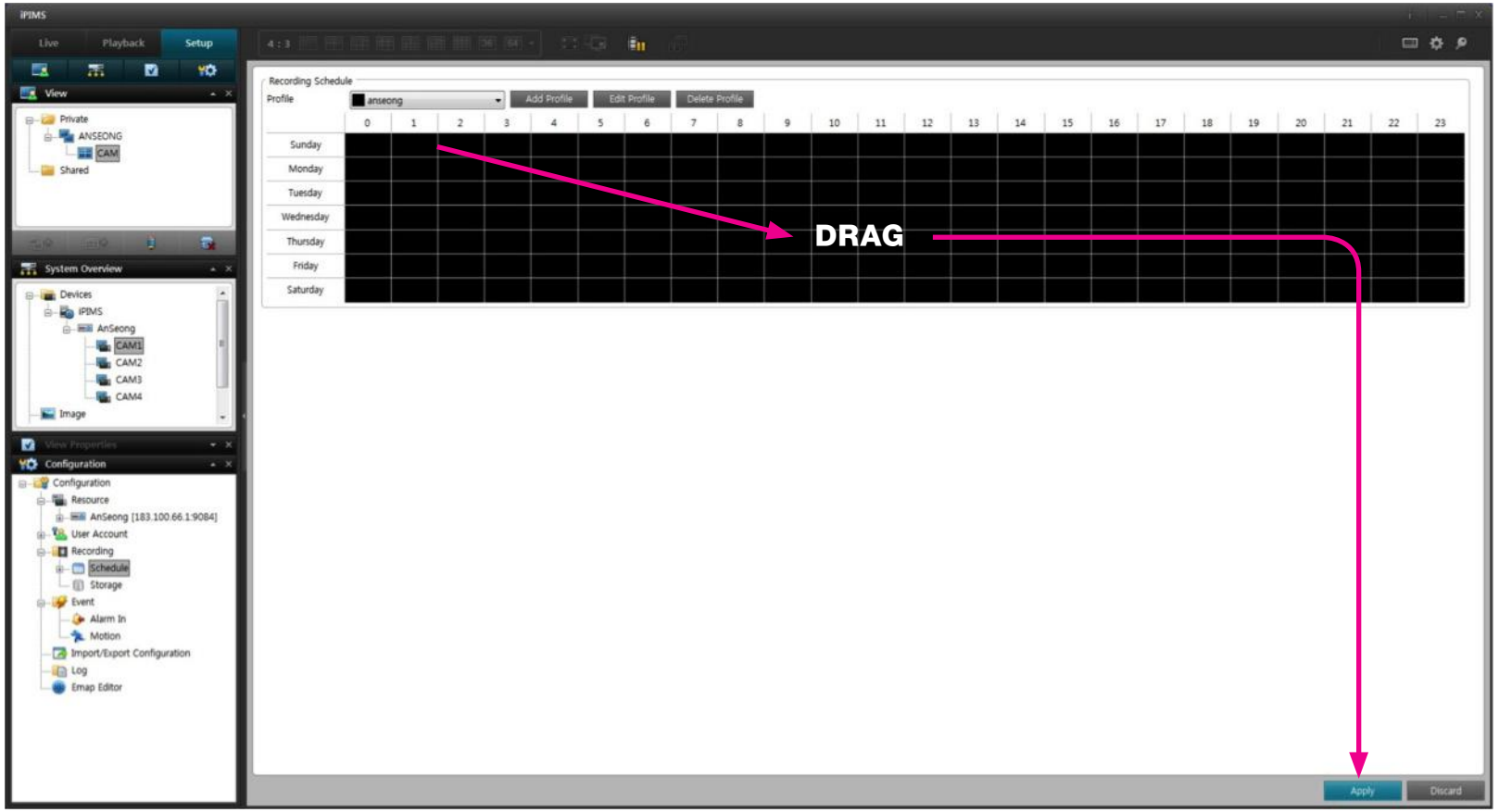
Step 6.

On the Setup bar, select Schedule of Recording in the Configuration window and then click “Add Profile.



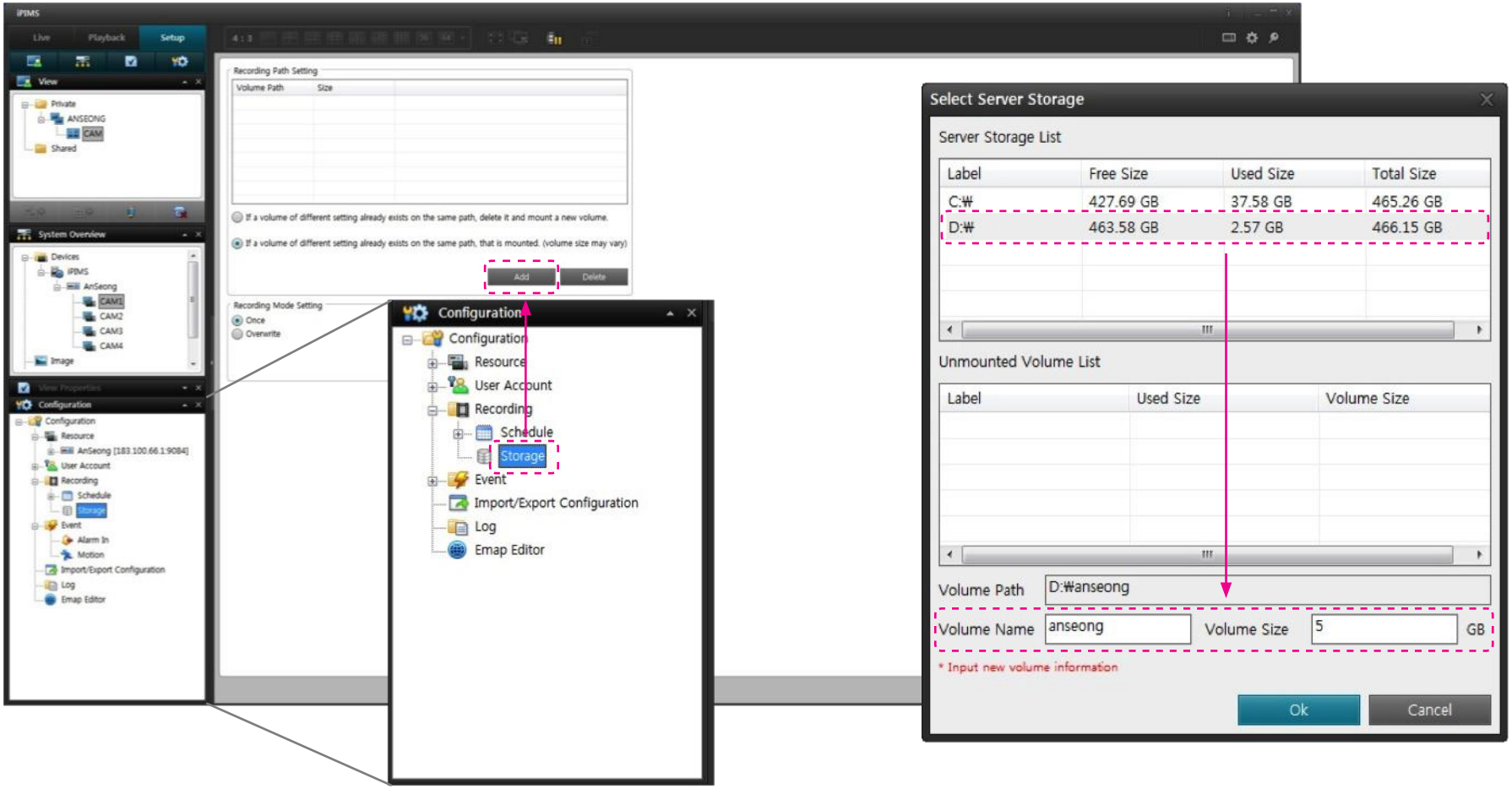
Step 7.

Configure the recording date and time by dragging them and click Apply.



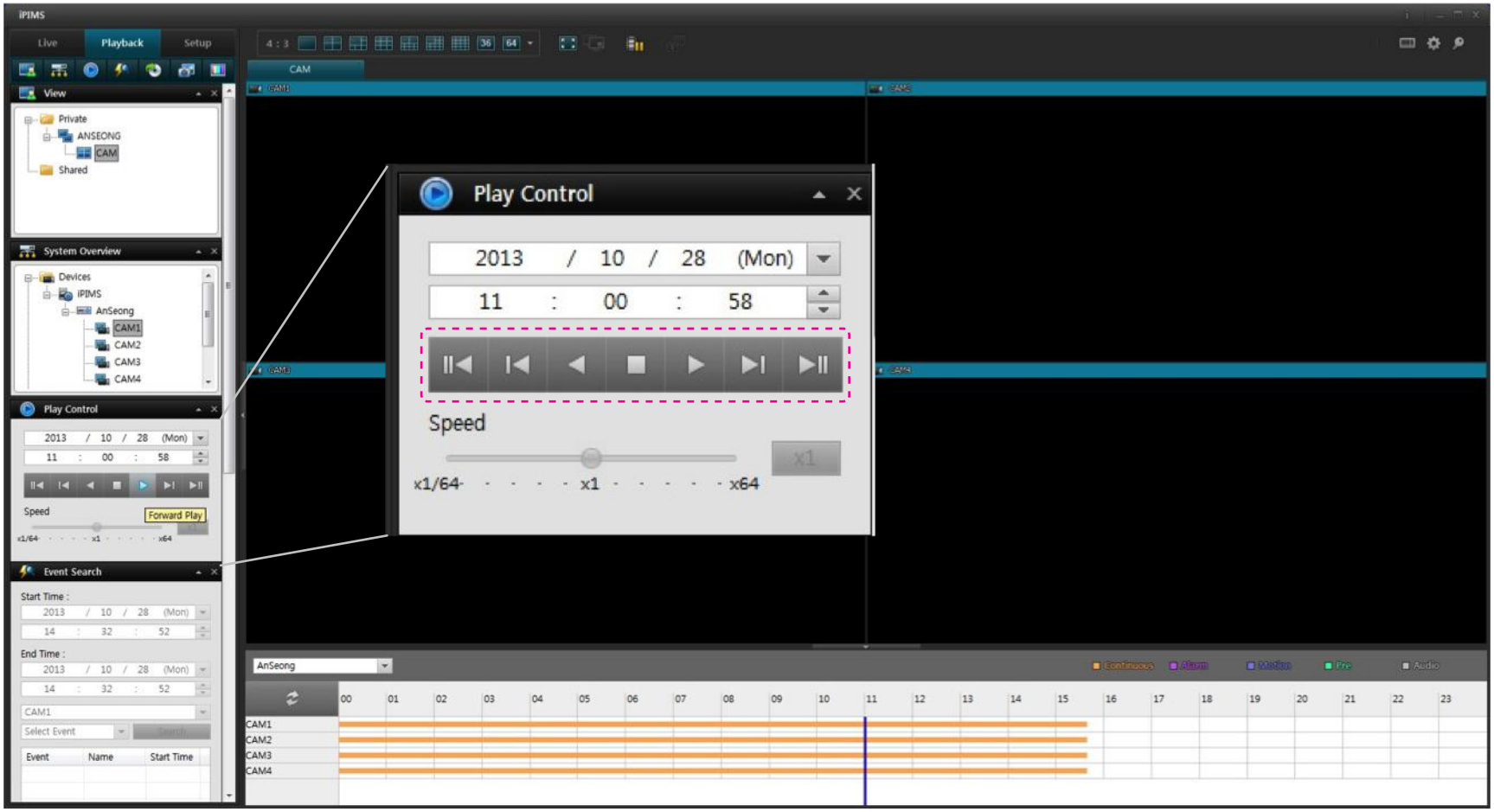
Step 8.

In the Setup-Configuration window, select Storage and click Add.
In the Select Server Storage window, select a Label to save. Enter the Volume Name and Size and click OK.



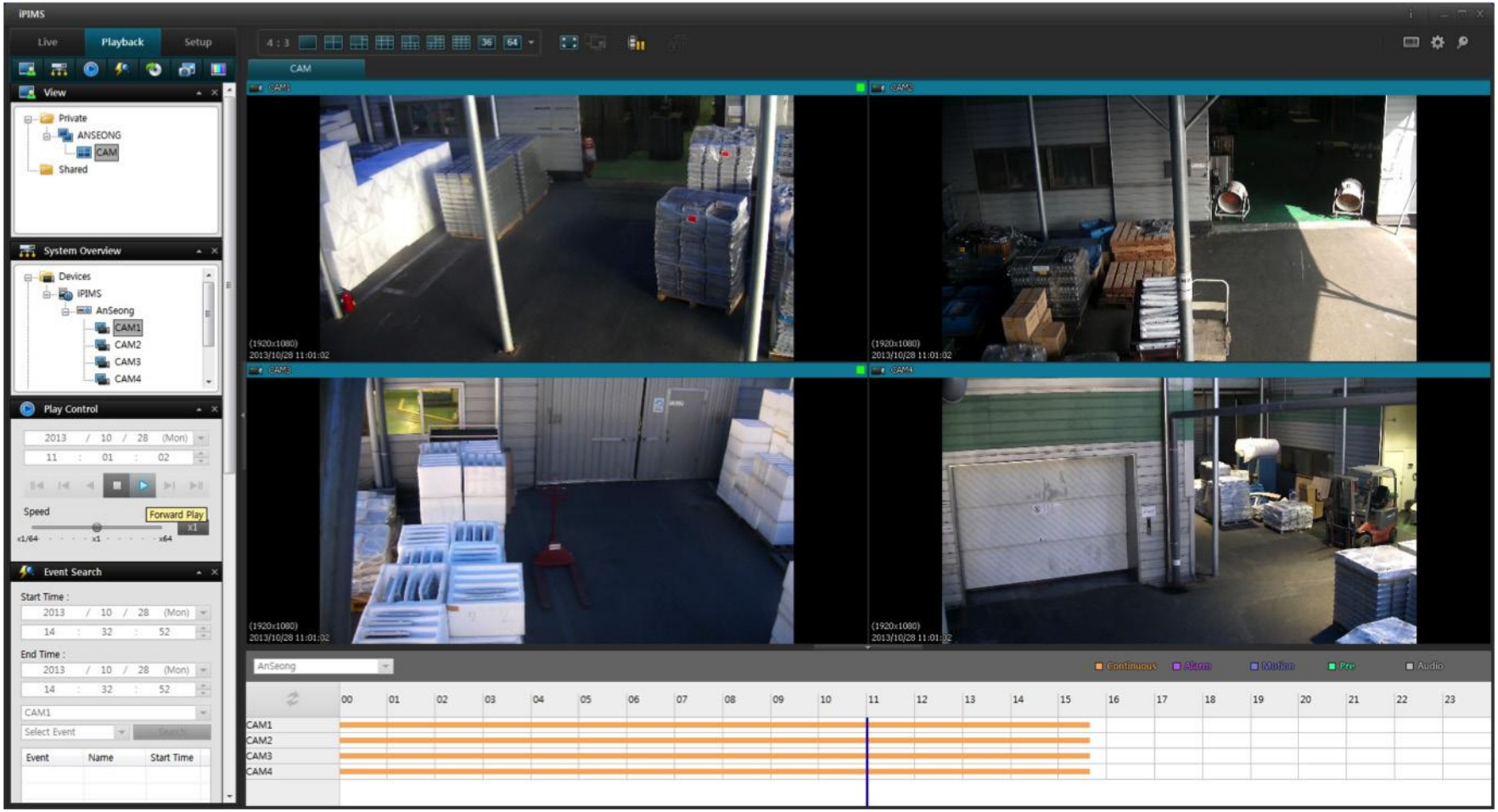
Step 9.

In the Playback -Play Control window, enter the date and time and click Play.



Step 10.

Check the image for confirmation of operation. Configuration is complete.

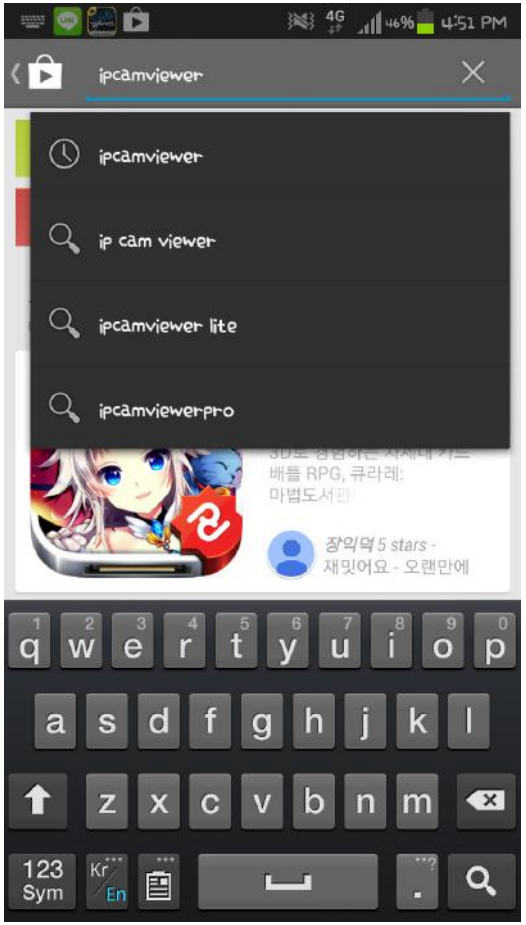


Mobile App setup

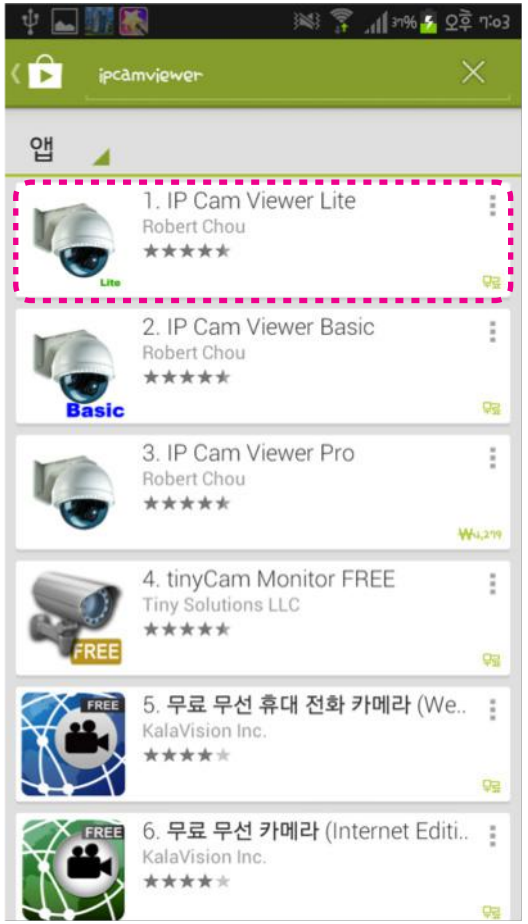
Mobile App setup

IP Camviewer Setup - Android

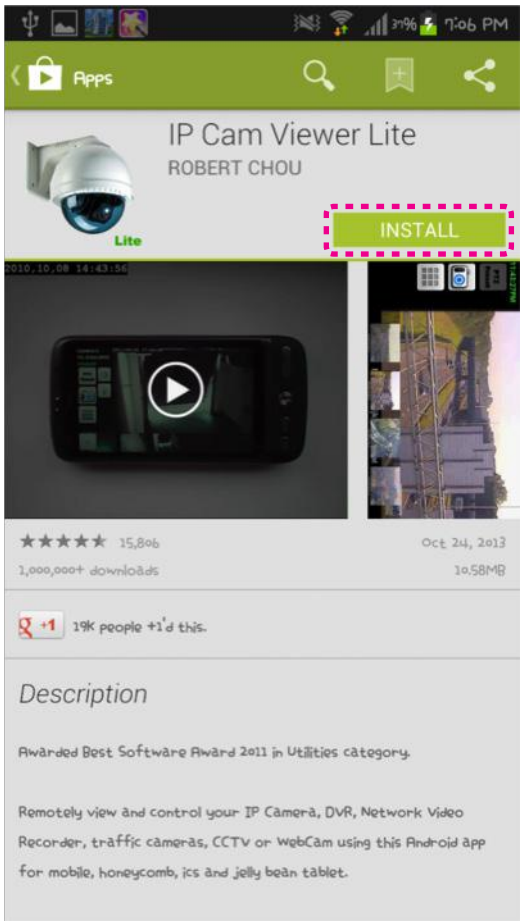
1.
Search “ipcamviewer” in Play Store.



2.
Select IP Cam Viewer Lite.

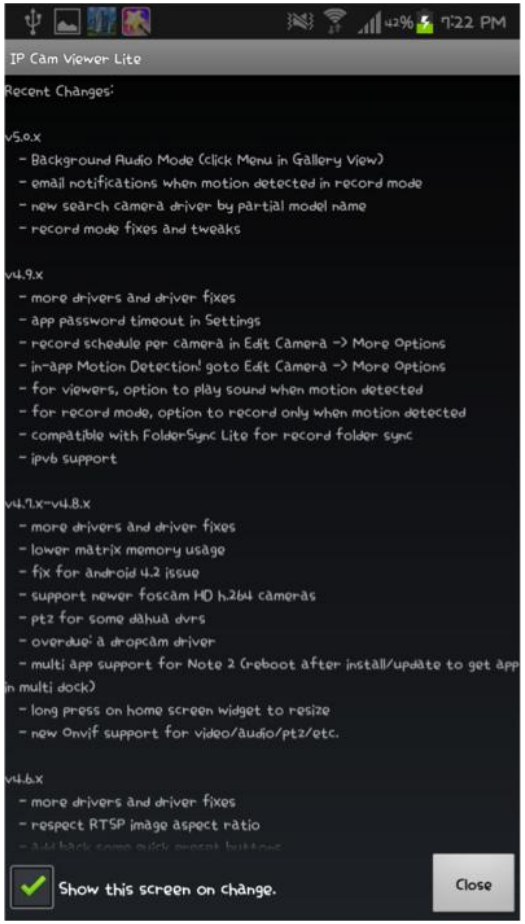


3.
Click INSTALL.

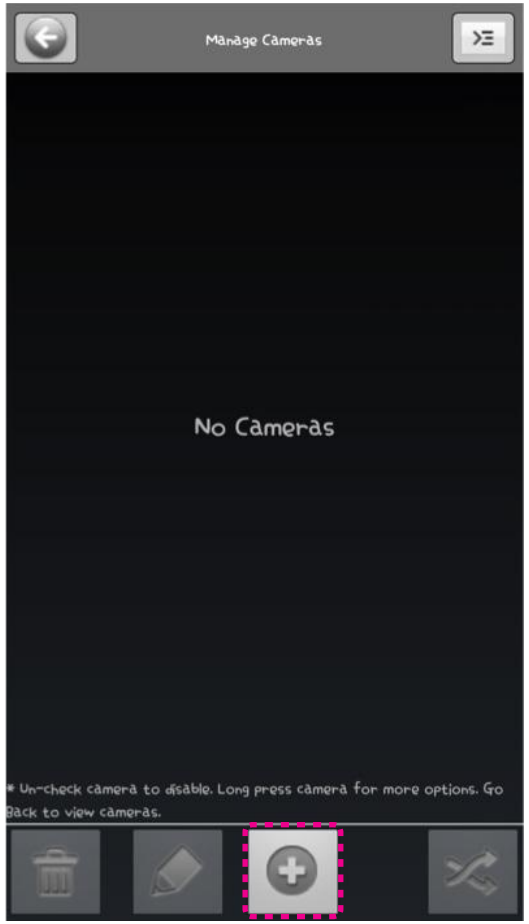


IP Camviewer Setup - Android

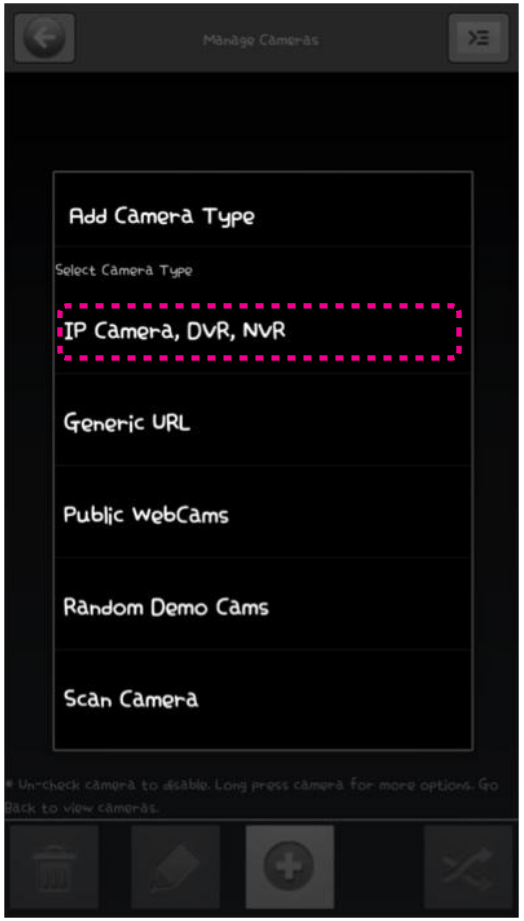
4.
Run IPCAMVIEWER and click Close.



5.
Click the icon and add a camera.



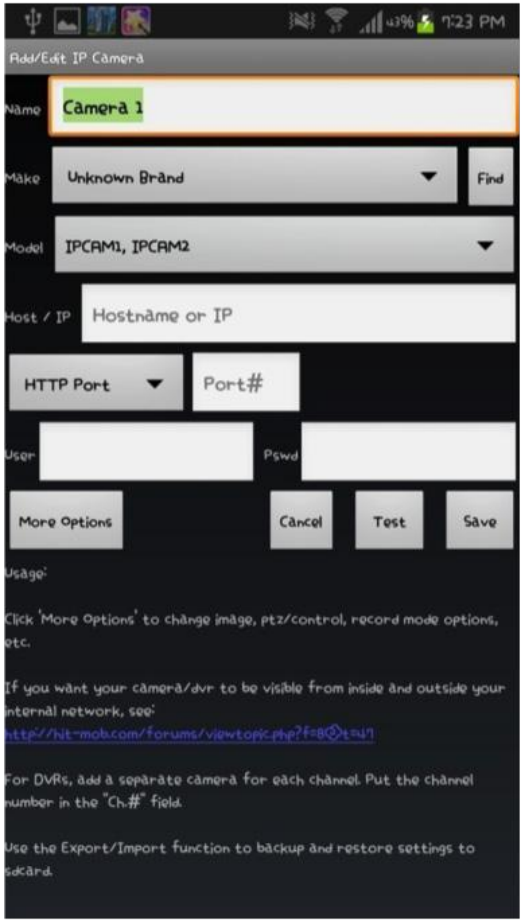
6.
Select IP Camera, DVR, NVR.



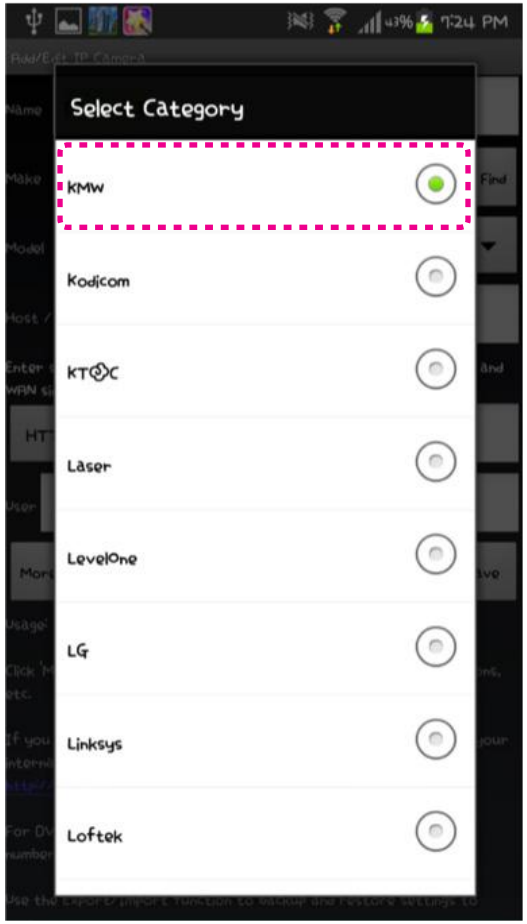
Mobile App setup

IP Camviewer Setup - Android

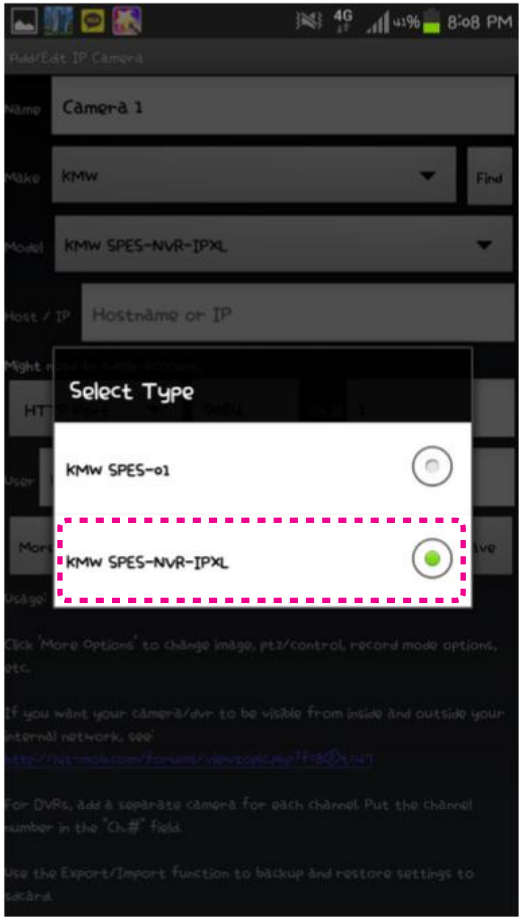
7.
IPCAMVIEWER configuration screen



8.
Select KMW for Make.

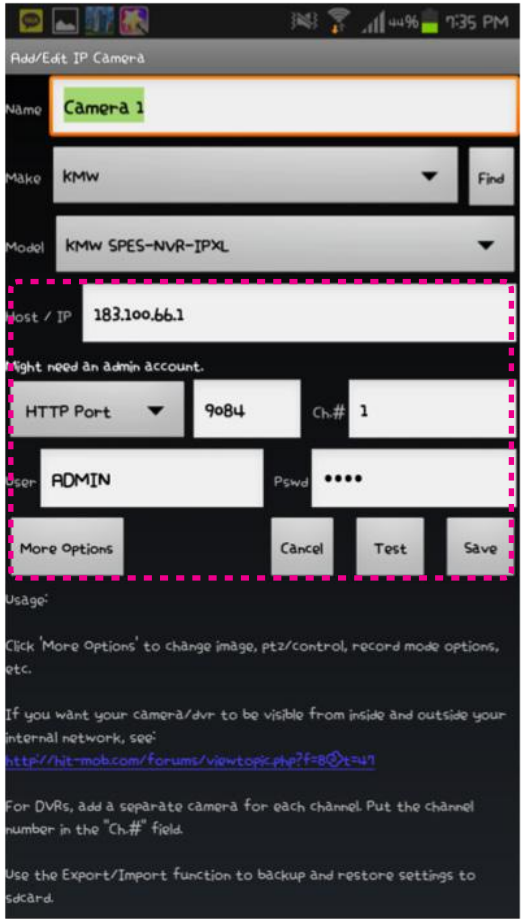


9.
Select KMW SPES-NVR-IPXL for Model.



IP Camviewer Setup - Android

10.
After configuring Host/IP, Port, and Channel, enter the Id and Password and click Save.

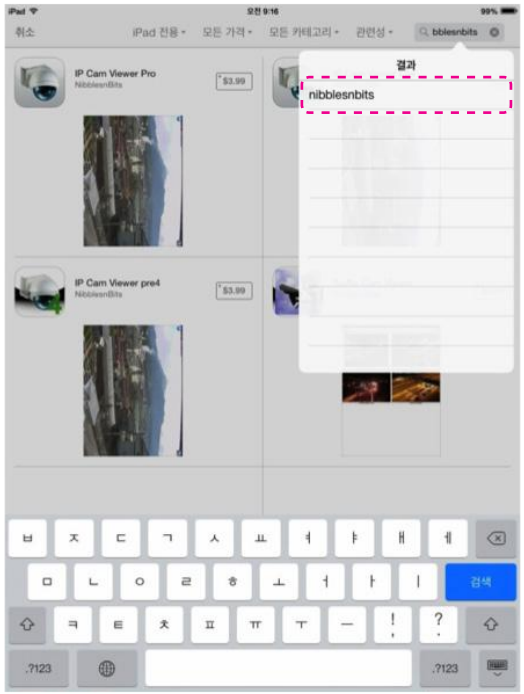


11.
Check the image for confirmation.
Configuration is complete.

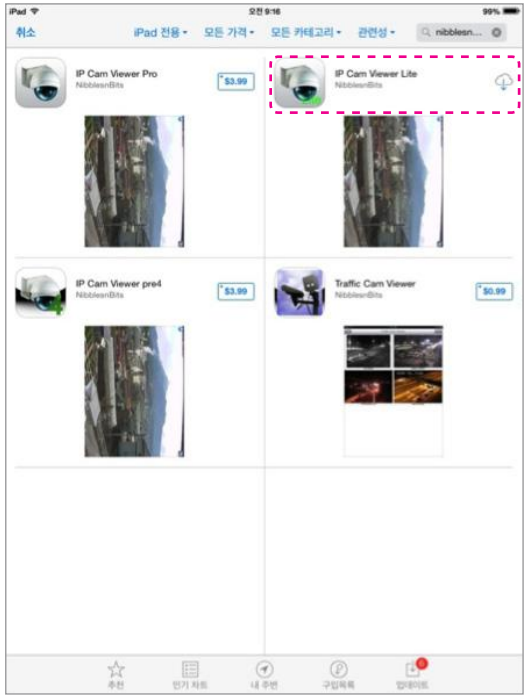
Mobile App setup

IP Camviewer Setup - IOS

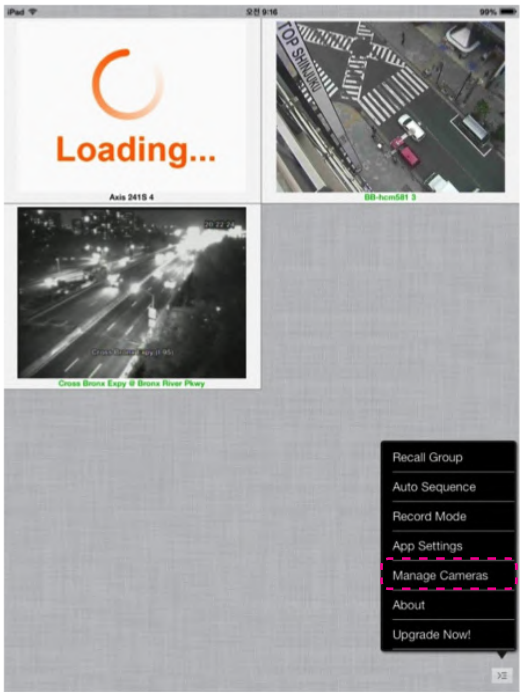
1.
Search “nibblesnbits” in App Store.



2.
Select IP Cam Viewer and install.



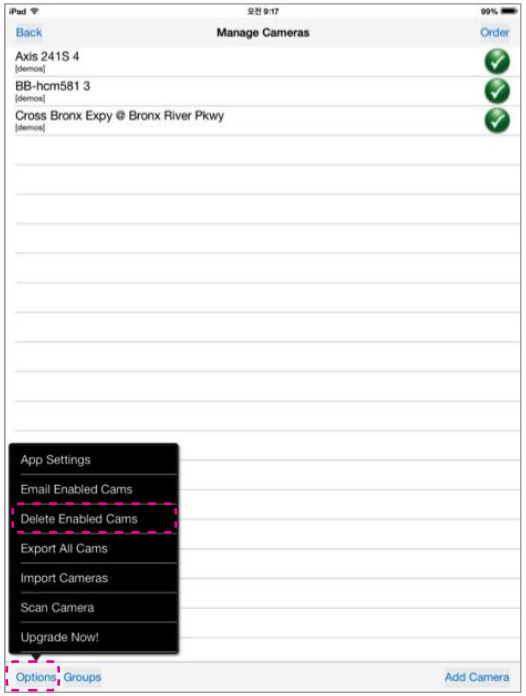
3.
On the initial screen, select Manage Cameras.



Mobile App setup

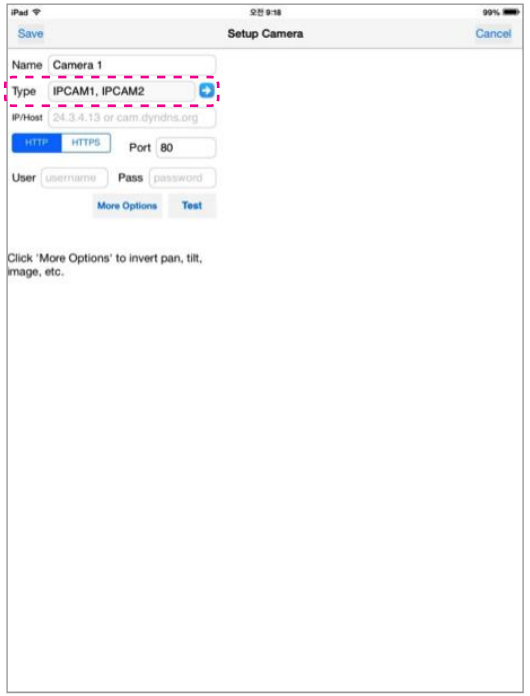
IP Camviewer Setup - IOS

4.
In Options, select Delete Enabled Cams.



5.
Select IP Camera, DVR, NVR in Add Camera.

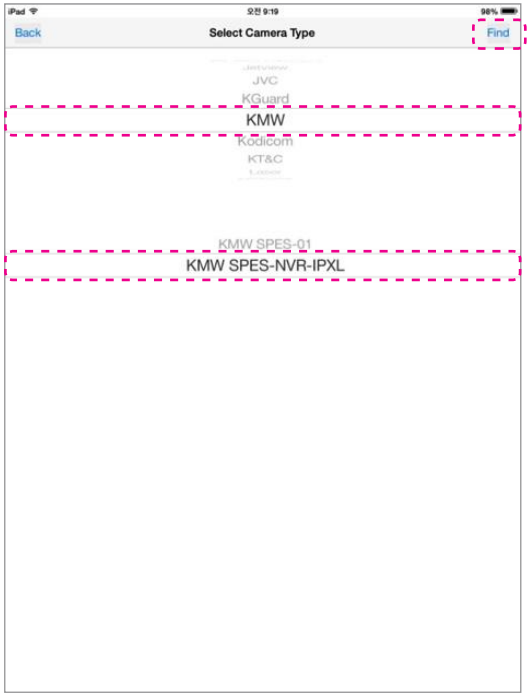
6.
Click the arrow of Type in Setup Camera.



Mobile App setup

IP Camviewer Setup - IOS

7.
Select KMW, KMW SPES-NVR-IPXL and click Find.



8.
Enter “nvr” in the input text field and click Find.

9.
Click Back.

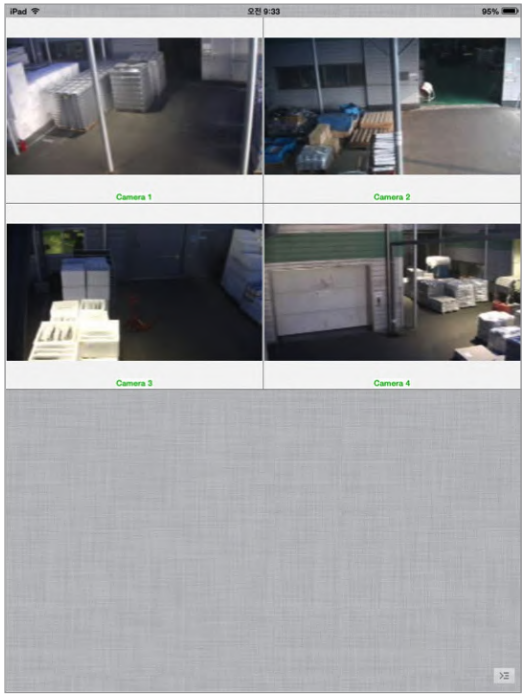
Mobile App setup

IP Camviewer Setup - IOS

10.
After configuring Host/IP, Port, and Channel, enter Id and Password and click Save.

11.
Click Back.

12.
Check the image for confirmation.
Configuration is complete.



GigaTera® by KMW

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THANK YOU